

**REDACTED**

### Data Validation Checklist Inorganic Analyses

Project: 35<sup>TH</sup> Avenue Superfund Site  
 Laboratory: TestAmerica - Savannah, GA  
 Method: SW-846 6010C and 7471B, and EPA 200.7 and 245.1  
 Matrix: Soil and Water  
 Reviewer: Karen Marie Trujillo, URS Group, Inc.  
 Concurrence<sup>1</sup>: Martha Meyers-Lee, URS Group, Inc.

Project No: 15268508.20000  
 Job ID.: 680-89896-2  
 Associated Samples: Refer to Attachment A (Sample Summary)  
 Date Collected: 04/29/2013 - 05/01/13  
 Date: 05/28/13  
 Date: 05/30/13

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample preservation requirements met? If pH of aqueous sample >2 and was not adjusted by laboratory prior to analysis, J- flag positive results and R- flag non-detect results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil/sediment samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Have any technical holding times, determined from date of collection to date of analysis, been exceeded? (Hg: ≤28 days, other metals: ≤6 months). If not, then J- flag positive results and R- flag non-detect aqueous results.		✓			
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?		✓		The MDL (0.59 mg/Kg) for arsenic is greater than the Resident Soil RSL (0.39 mg/Kg). A RSL does not exist for total chromium; however, the total chromium MDL (0.5 mg/Kg) is greater than the hexavalent chromium Resident Soil RSL (0.29 mg/Kg).	
8. Were method blank (MB) prepared at the appropriate frequency (one per 20 samples, batch, matrix, and level)?	✓				
9. Was a calibration blank (ICB/CCB) analyzed at the beginning, after every 10 <sup>th</sup> sample, and at the end of each analytical run?	✓				
10. Were target analytes detected in the method and/or calibration blanks?		✓		Target analytes were not detected in the method blanks. Calibration blanks were not evaluated.	

<sup>1</sup> Independent technical reviewer

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
11. Were target analytes reported in equipment/rinsate blanks analyses above the DL?		✓		According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. Rinsate blank 050113-RB-Bowls&Spoons (680-89896-23) was collected during the week of 4/29/2013. Target analytes were not detected during the EPA Methods 200.7 and 245.1 analyses of the rinsate blank, and all results were reported under this Test America Job ID.	
12. Were contaminants detected in samples below the blank contamination action level? <ul style="list-style-type: none"> <li>○ If blank result &gt; RL, <ul style="list-style-type: none"> <li>• Flag sample results <math>\leq</math> RL with a U</li> <li>• Flag positive sample results &gt; RL and <math>\leq</math>10x blank result , as J+ positive results</li> </ul> </li> <li>○ If blank result <math>\leq</math>RL, <ul style="list-style-type: none"> <li>• Flag sample results <math>\leq</math> RL with a U</li> <li>• Flag positive sample results &gt; RL and &lt;10x blank result , as J+ positive results</li> </ul> </li> </ul>			✓	Method and rinsate blank contamination does not exist.	
13. Are there negative laboratory blank results with the absolute value $\leq$ RL? If yes, then flag positive and non-detect sample results that are < 10x absolute blank value as J- and UJ, respectively.		✓			
14. Was a field duplicate analyzed?	✓			Field duplicate sample CV0988A-CSD (680-89896-18) was analyzed for metals by SW-846 Methods 6010C and 7471A; however, an evaluation of field imprecision is not possible, because the primary sample CV0988A-CS was not subject to a metals analysis per the COC record.	
15. Was precision deemed acceptable as defined by the project plans?			✓		
16. Were initial and continuing calibration standards analyzed at the lab/project-specified frequency for each instrument? <ul style="list-style-type: none"> <li>○ 6010C: <ul style="list-style-type: none"> <li>• ICAL: Blank and one standard</li> <li>• ICV initially, and CCV every 10<sup>th</sup> sample and at the end of the analytical run</li> <li>• Lower Limit of Quantitation Check Sample (CRI) to be analyzed after establishing lower laboratory reporting limits and as needed</li> </ul> </li> <li>○ 7471A:</li> </ul>	✓			<ul style="list-style-type: none"> <li>• 200.7/6010C: 05/07/2013-05/08/2013, instrument ICPF. One blank and one standard initially per analytical batch. ICV initially, and CCV every 10 samples and at end of run. CRI after initial calibration blank analysis.</li> <li>• 245.1: 05/08/2013-05/09/2013, instrument LEEMAN2. 6-Point ICAL per analytical batch. ICV initially, CCV every 10 samples and at end of run. CRI after initial calibration blank analysis.</li> </ul>	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> <li>• ICAL: Blank and five standards</li> <li>• ICV initially, and CCV every 10<sup>th</sup> sample and at the end of the analytical run</li> <li>○ 7196A:                             <ul style="list-style-type: none"> <li>• ICAL: Blank and minimum of five standards</li> <li>• ICV initially, and CCV every 10<sup>th</sup> sample (15<sup>th</sup> per Method) and at the end of the analytical run</li> </ul> </li> </ul>				<ul style="list-style-type: none"> <li>• 7471B: 05/10/2013, instrument LEEMAN2. 6-Point ICAL per analytical batch. ICV initially, CCV every 10 samples and at end of run. CRI after initial calibration blank analysis.</li> </ul>	
<p>17. Were these results within lab/project specifications?</p> <ul style="list-style-type: none"> <li>○ 6010C                             <ul style="list-style-type: none"> <li>• ICV/CCV (Criteria: 90-110%R):                                     <ul style="list-style-type: none"> <li>▪ If %R &lt;75, then J- flag positive results and R-flag non-detects</li> <li>▪ If 75-89%R, then J- flag positive results and UJ flag non-detects</li> <li>▪ If 111-125%R, then J flag positive results</li> <li>▪ If &gt;125%R, then J+ flag positive results</li> <li>▪ If &gt;160%R, then R flag positive results</li> </ul> </li> <li>• CRI (Method: 70-130%R, Laboratory: 50-150%R; Project: 50-150%R for Sb, Pb, and Tl, and 70-130%R for all other analytes):                                     <ul style="list-style-type: none"> <li>▪ If CRI %R &lt;50 (&lt;30% for Sb, Pb, TL), then R flag results ≤ 2x RL and J flag positive results &gt;2x RL</li> <li>▪ If CRI %R 50-69% (30-49% for Sb, Pb, TL), then J- and UJ flag positive results &lt;2x RL and ND, respectively</li> <li>▪ If CRI %R &gt;130% and ≤180% (&gt;150%, but ≤200% for Sb, Pb, TL), then J+ flag positive results &lt;2x RL</li> <li>▪ If CRI %R &gt;180% (&gt;200% for Sb, Pb, TL), then R flag positive results</li> </ul> </li> </ul> </li> <li>○ 7471A                             <ul style="list-style-type: none"> <li>• ICV/CCV (Criteria: 80-120%R):                                     <ul style="list-style-type: none"> <li>▪ If correlation coefficients &lt;0.995, then J and UJ flag positive and non-detect results.</li> <li>▪ If %R &lt;65, then J- flag positive results and R-flag non-detects</li> <li>▪ If 65-79%R, then J- flag positive results and UJ flag non-detects</li> <li>▪ If 121-135%R, then J flag positive results</li> <li>▪ If &gt;135%R, then J+ flag positive results</li> <li>▪ If &gt;170%R, then R flag positive results</li> </ul> </li> <li>• CRI (Method: Not required, Laboratory: 50-150%R, Project: 70-130%R):                                     <ul style="list-style-type: none"> <li>▪ If CRI %R &lt;50, then R flag results ≤ 2x RL and J flag positive results &gt;2x RL</li> </ul> </li> </ul> </li> </ul>	✓			<p>Mercury correlation coefficient:</p> <ul style="list-style-type: none"> <li>• 245.1: ICAL of 05/08/2013 is 0.9992387 (page 319)</li> <li>• 7471B: ICAL of 05/10/2013 is 0.9999824 (page 323)</li> </ul>	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> <li>▪ If CRI %R 50-69%, then J- and UJ flag positive results &lt;2x RL and ND, respectively</li> <li>▪ If CRI %R &gt;130% and ≤180%, then J+ flag positive results &lt;2x RL</li> <li>▪ If CRI %R &gt;180%, then R flag positive result</li> <li>○ 7196A:                             <ul style="list-style-type: none"> <li>• ICV/CCV (Criteria: 90-110%R):                                     <ul style="list-style-type: none"> <li>▪ If correlation coefficients &lt;0.995, then J and UJ flag positive and non-detect results.</li> <li>▪ If %R &lt;65, then J- flag positive results and R-flag non-detects</li> <li>▪ If 65-90%R, then J- flag positive results and UJ flag non-detects</li> <li>▪ If 110-135%R, then J flag positive results</li> <li>▪ If &gt;135%R, then J+ flag positive results</li> <li>▪ If &gt;170%R, then R flag positive results</li> </ul> </li> </ul> </li> </ul>					
18. Was the interference check sample (ICS) analyzed at the beginning of each ICP analytical run?	✓				
19. Are ICS recoveries within 80-120% of the true value? If not, qualify data as follows when native Al, Fe, Ca, and Mg sample concentrations are equal to or greater than the ICS spiking level: <ul style="list-style-type: none"> <li>○ If &gt;120%R (or &gt;&gt;true value plus 2x CRQL), J+ flag positive results</li> <li>○ If 50-79%R (or less than true value – 2x the CRQL), J- flag positive results and UJ flag non-detects</li> <li>○ If &lt;50%R, J- flag positive results and R-flag non-detects</li> </ul>	✓				
20. Was a LCS analyzed for each preparation batch (one per 20 samples per matrix and level)?	✓				
21. Did LCS recoveries meet method/laboratory/project (80-120%R) specifications? <ul style="list-style-type: none"> <li>○ Soil:                             <ul style="list-style-type: none"> <li>• LCS result &gt; Upper control limit (UCL): J+ flag positive results</li> <li>• LCS result &lt; Lower control limit (LCL): J- flag positive results and UJ flag non-detects</li> </ul> </li> <li>○ Aqueous:                             <ul style="list-style-type: none"> <li>• If &lt;50%R, then J- and R flag positive and ND results, respectively</li> <li>• If 50-LCL%R, J- and UJ flag positive and ND results, respectively</li> <li>• &gt;UCL: J+ Flag positive results</li> <li>• &gt;150%R: R Flag results</li> </ul> </li> </ul>	✓				
22. Was the RPD between LCS and LCSD results within			✓	LCS only	

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
method/laboratory /project control limits ( $\leq 20\%$ RPD)? If not, J and UJ flag positive and non-detect results, respectively.					
23. Was a Matrix Spike (MS) and Matrix Spike Duplicate (MSD) analyzed once per preparation batch?	✓				
24. Is the MS and MSD parent sample a project-specific sample?	✓	✓		<ul style="list-style-type: none"> <li>200.7, Prep Batch 275602: 680-89876-10 (Batch Sample), MS/MSD</li> <li>245.1, Prep Batch 275763: 680-89934-1 (Batch Sample), MS/MSD</li> <li>6010C, Prep Batch 275575: 680-89896-4 (CV0731A-CS-SP), MS/MSD</li> <li>7471B, Prep Batch 275956: 680-89896-4 (CV0731A-CS-SP), MS/MSD</li> </ul>	
25. Was a post-digestion spike (PDS) analysis conducted when MS and/or MSD results did not meet control limits (Note: PDS is not required for silver)?	✓			<ul style="list-style-type: none"> <li>200.7: 680-89896-23 (050113-RB-Bowls&amp;Spoons)</li> <li>6010C: 680-89896-4 (CV0731A-CS-SP)</li> </ul>	
26. For all analytes with sample concentration $< 4 \times$ spike concentration, are spike recoveries within method (6010C: 75-125%R MS/MSD and 80-120%R PDS; 7471B: 80-120%R MS/MSD and PDS not required), laboratory (MS, MSD, and PDS: 75-125%R), and project (as noted below) specifications? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> If not, o 6010C: <ul style="list-style-type: none"> <li>If MS %R <math>&lt; 30</math> and PDS %R <math>&lt; 75</math>, then J- and R Flag positive and ND results, respectively</li> <li>If MS %R <math>&lt; 30</math> and PDS %R <math>&gt; 75</math>, then J flag positive and UJ flag non-detect results</li> <li>If MS and MSD %R 30-74 and PDS%R <math>&lt; 75</math>, then J- flag positive and UJ flag non-detect results</li> <li>If MS and MSD %R 30-74 and PDS%R <math>\geq 75</math>, then J flag positive and UJ flag non-detect results</li> <li>If MS, MSD, and PDS %R <math>&gt; 125</math>, J+ flag positive results</li> <li>If MS and MSD %R <math>&gt; 125</math> and PDS %R <math>\leq 125</math>, then J flag positive results</li> <li>If MS and MSD %R <math>&lt; 30</math> and no PDS, then J- flag positive and R-flag non-detect results</li> </ul>		✓		CV0731A-CS-SP (680-89896-4): <ul style="list-style-type: none"> <li>6010C: <ul style="list-style-type: none"> <li>Arsenic @ 194 and 122 %R (75-125). Qualification of data not required based on MS and MSD results<sup>2</sup>. PDS recovery (103%) fell within control limits (75-125).</li> <li>Barium @ 364 and -390 %R (75-125). An evaluation of interference is not possible based on MS and MSD results<sup>3</sup>. PDS recovery (95%) fell within control limits (75-125).</li> <li>Chromium @ 230 and 214 %R (75-125). PDS recovery (95%) fell within control limits (75-125). J Flag sample result.</li> <li>Lead @ 433 and -302 %R (75-125). An evaluation of interference is not possible based on MS and MSD results<sup>3</sup>. PDS recovery (86%) fell within control limits (75-125).</li> </ul> </li> <li>7471B: Mercury @ 76 and 113 %R (80-120). Qualification of data not required based on</li> </ul>	J

<sup>2</sup> The recovery of either the MS or MSD met control limits.

<sup>3</sup> The native sample concentration is greater than 4x the MS/MSD spiking level.



## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> <li>• If MS and MSD %R 30-74 and no PDS, then J- and UJ flag positive and non-detect results, respectively</li> <li>• If MS and MSD %R &gt;125 and no PDS, then J+ flag positive results</li> <li>○ 7471B: <ul style="list-style-type: none"> <li>• If MS %R &lt;30, then J- and R Flag positive and ND results, respectively</li> <li>• If MS and MSD %R 30-74, then J- flag positive and UJ flag non-detect results</li> <li>• If MS and MSD %R &gt;125, then J+ flag positive results</li> </ul> </li> </ul>				MS and MSD results <sup>2</sup> .	
27. Were laboratory/project ( $\leq 20\%$ RPD) criteria met for precision during the MS and MSD analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> <li>○ If RPD &gt;20%, J and UJ flag positive and non-detect results.</li> </ul>		✓		CV0731A-CS-SP (680-89896-4): <ul style="list-style-type: none"> <li>• Arsenic @ 21%RPD (<math>\leq 20</math>). J Flag</li> <li>• Barium @ 45%RPD (<math>\leq 20</math>). An evaluation of interference is not possible based on MS and MSD results<sup>3</sup>.</li> <li>• Lead @ 35%RPD (<math>\leq 20</math>). An evaluation of interference is not possible based on MS and MSD results<sup>3</sup>.</li> </ul>	J
28. Was a serial dilution conducted for 6010C?	✓			<ul style="list-style-type: none"> <li>• 200.7: 680-89896-23 (050113-RB-Bowls&amp;Spoons)</li> <li>• 6010C: 680-89896-4 (CV0731A-CS-SP)</li> </ul>	
29. Is the serial dilution parent sample a project-specific sample?	✓	✓		See Above	
30. Is the percent difference between the serially diluted result and undiluted result less 10% (for those analytes with native concentrations greater than 50x the DL)? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> <li>○ If %D &gt;10, J and UJ flag positive and non-detect results, respectively.</li> </ul>			✓	Target analytes were not detected in the rinsate blank.	
31. Was a laboratory duplicate analyzed?		✓			
32. Was the lab duplicate analysis conducted on a project-specific sample?			✓		
33. Were criteria for laboratory/project precision met? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> <li>○ If RPD values &gt;20% (35% for soil/sediment) or absolute difference &gt; RL (2x RL for soil/sediment), then J and UJ flag positive and non-detect results, respectively.</li> </ul>			✓		
34. Were lab comments included in report? If yes, summarize	✓			Refer to <b>Attachment B</b> (Case Narrative)	

**Data Validation Checklist (Continued)**

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
contents or attach a copy of the narrative.					
<p><b>Comments:</b> The data validation was conducted in accordance with the <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Inorganic Data Review</i> (EPA 540-R-04-004, October 2004). Sample results have been qualified based on the results of the data review process (<b>Attachment C</b>). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.</p>					

**DV Flag Definitions:**

- J- The result is an estimated quantity, but the result may be biased low.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
- U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
- UJ The analyte was analyzed for, but was not detected. The reported limit is approximate and may be inaccurate or imprecise.

**ATTACHMENT A**  
**SAMPLE SUMMARY**



# Sample Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
SDG: 68089896-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89896-4	CV0731A-CS-SP	Solid	04/29/13 13:22	05/02/13 10:30
680-89896-6	CV0662A-CS-SP	Solid	04/30/13 10:35	05/02/13 10:30
680-89896-18	CV0988A-CSD	Solid	04/30/13 13:10	05/02/13 10:30
680-89896-20	CV0662A-CS-SP (sieve)	Solid	04/30/13 10:35	05/02/13 10:30
680-89896-21	CV0731A-CS-SP (sieve)	Solid	04/29/13 13:22	05/02/13 10:30
680-89896-22	CV0988A-CS-SP (sieve)	Solid	04/30/13 13:10	05/02/13 10:30
680-89896-23	050113-RB-Bowls&Spoons	Water	05/01/13 09:30	05/02/13 10:30

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**ATTACHMENT B**  
**CASE NARRATIVE**

## Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
SDG: 68089896-2

**Job ID: 680-89896-2**

**Laboratory: TestAmerica Savannah**

Narrative

### CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-89896-2**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

#### **RECEIPT**

The samples were received on 05/02/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.3 C.

#### **METALS (ICP)-Water**

Sample 050113-RB-Bowls&Spoons (680-89896-23) was analyzed for Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 05/06/2013 and analyzed on 05/07/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

#### **TOTAL MERCURY-Water**

Sample 050113-RB-Bowls&Spoons (680-89896-23) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared on 05/07/2013 and analyzed on 05/08/2013.

Mercury recovered outside the recovery criteria for the MS/MSD of sample 680-89934-1 in batch 680-276087.

Mercury also exceeded the rpd limit for the MSD of sample 680-89934-1 in batch 680-276087.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

No other difficulties were encountered during the mercury analysis.

All other quality control parameters were within the acceptance limits.

#### **METALS (ICP)**

Samples CV0731A-CS-SP (680-89896-4), CV0662A-CS-SP (680-89896-6), CV0988A-CSD (680-89896-18), CV0662A-CS-SP (sieve) (680-89896-20), CV0731A-CS-SP (sieve) (680-89896-21) and CV0988A-CS-SP (sieve) (680-89896-22) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/06/2013 and analyzed on 05/08/2013.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0731A-CS-SP (680-89896-4) in batch 680-275916. Also, Arsenic, Barium and Lead exceeded the rpd limit.

## Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
SDG: 68089896-2

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### Job ID: 680-89896-2 (Continued)

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#### Laboratory: TestAmerica Savannah (Continued)

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

#### **TOTAL MERCURY**

Samples CV0731A-CS-SP (680-89896-4), CV0662A-CS-SP (680-89896-6), CV0988A-CSD (680-89896-18), CV0662A-CS-SP (sieve) (680-89896-20), CV0731A-CS-SP (sieve) (680-89896-21) and CV0988A-CS-SP (sieve) (680-89896-22) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 05/08/2013 and analyzed on 05/10/2013.

Mercury recovered outside the recovery criteria for the MS of sample CV0731A-CS-SPMS (680-89896-4) in batch 680-276327.

No other difficulties were encountered during the mercury analyses.

All other quality control parameters were within the acceptance limits.

**ATTACHMENT C**  
**QUALIFIED SAMPLE RESULTS**

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
 SDG: 68089896-2

**Client Sample ID: CV0731A-CS-SP**

**Lab Sample ID: 680-89896-4**

Date Collected: 04/29/13 13:22

Matrix: Solid

Date Received: 05/02/13 10:30

Percent Solids: 82.4

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	21		2.4	0.71	mg/Kg	☼	05/06/13 08:40	05/08/13 05:36	1
Barium	200		1.2	0.36	mg/Kg	☼	05/06/13 08:40	05/08/13 05:36	1
Cadmium	0.76		0.60	0.12	mg/Kg	☼	05/06/13 08:40	05/08/13 05:36	1
Chromium	41		1.2	0.60	mg/Kg	☼	05/06/13 08:40	05/08/13 05:36	1
Lead	120		1.2	0.64	mg/Kg	☼	05/06/13 08:40	05/08/13 05:36	1
Selenium	3.0	U	3.0	1.2	mg/Kg	☼	05/06/13 08:40	05/08/13 05:36	1
Silver	1.2	U	1.2	0.12	mg/Kg	☼	05/06/13 08:40	05/08/13 05:36	1

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.021	0.0084	mg/Kg	☼	05/08/13 12:47	05/10/13 12:46	1

**Client Sample ID: CV0662A-CS-SP**

**Lab Sample ID: 680-89896-6**

Date Collected: 04/30/13 10:35

Matrix: Solid

Date Received: 05/02/13 10:30

Percent Solids: 84.0

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	17		2.3	0.68	mg/Kg	☼	05/06/13 08:40	05/08/13 06:03	1
Barium	200		1.2	0.35	mg/Kg	☼	05/06/13 08:40	05/08/13 06:03	1
Cadmium	3.9		0.58	0.12	mg/Kg	☼	05/06/13 08:40	05/08/13 06:03	1
Chromium	17		1.2	0.58	mg/Kg	☼	05/06/13 08:40	05/08/13 06:03	1
Lead	420		1.2	0.61	mg/Kg	☼	05/06/13 08:40	05/08/13 06:03	1
Selenium	2.9	U	2.9	1.2	mg/Kg	☼	05/06/13 08:40	05/08/13 06:03	1
Silver	0.45	J	1.2	0.11	mg/Kg	☼	05/06/13 08:40	05/08/13 06:03	1

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.020	0.0083	mg/Kg	☼	05/08/13 12:47	05/10/13 12:59	1

**Client Sample ID: CV0988A-CSD**

**Lab Sample ID: 680-89896-18**

Date Collected: 04/30/13 13:10

Matrix: Solid

Date Received: 05/02/13 10:30

Percent Solids: 77.5

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	25		2.3	0.67	mg/Kg	☼	05/06/13 08:40	05/08/13 06:09	1
Barium	330		1.1	0.34	mg/Kg	☼	05/06/13 08:40	05/08/13 06:09	1
Cadmium	7.5		0.57	0.11	mg/Kg	☼	05/06/13 08:40	05/08/13 06:09	1
Chromium	71		1.1	0.57	mg/Kg	☼	05/06/13 08:40	05/08/13 06:09	1
Lead	480		1.1	0.61	mg/Kg	☼	05/06/13 08:40	05/08/13 06:09	1
Selenium	2.9	U	2.9	1.1	mg/Kg	☼	05/06/13 08:40	05/08/13 06:09	1
Silver	0.49	J	1.1	0.11	mg/Kg	☼	05/06/13 08:40	05/08/13 06:09	1

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.34		0.024	0.0098	mg/Kg	☼	05/08/13 12:47	05/10/13 13:01	1

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTTE, October 2012)



# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
 SDG: 68089896-2

## Client Sample ID: CV0662A-CS-SP (sieve)

Lab Sample ID: 680-89896-20

Date Collected: 04/30/13 10:35

Matrix: Solid

Date Received: 05/02/13 10:30

Percent Solids: 80.9

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	22		2.4	0.70	mg/Kg	☼	05/06/13 08:40	05/08/13 06:14	1
Barium	180		1.2	0.36	mg/Kg	☼	05/06/13 08:40	05/08/13 06:14	1
Cadmium	5.9		0.59	0.12	mg/Kg	☼	05/06/13 08:40	05/08/13 06:14	1
Chromium	28		1.2	0.59	mg/Kg	☼	05/06/13 08:40	05/08/13 06:14	1
Lead	600		1.2	0.63	mg/Kg	☼	05/06/13 08:40	05/08/13 06:14	1
Selenium	3.0	U	3.0	1.2	mg/Kg	☼	05/06/13 08:40	05/08/13 06:14	1
Silver	0.68	J	1.2	0.11	mg/Kg	☼	05/06/13 08:40	05/08/13 06:14	1

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.024	0.0097	mg/Kg	☼	05/08/13 12:47	05/10/13 13:04	1

## Client Sample ID: CV0731A-CS-SP (sieve)

Lab Sample ID: 680-89896-21

Date Collected: 04/29/13 13:22

Matrix: Solid

Date Received: 05/02/13 10:30

Percent Solids: 87.6

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	21		2.0	0.59	mg/Kg	☼	05/06/13 08:40	05/08/13 06:19	1
Barium	160		0.99	0.30	mg/Kg	☼	05/06/13 08:40	05/08/13 06:19	1
Cadmium	0.77		0.50	0.099	mg/Kg	☼	05/06/13 08:40	05/08/13 06:19	1
Chromium	33		0.99	0.50	mg/Kg	☼	05/06/13 08:40	05/08/13 06:19	1
Lead	310		0.99	0.53	mg/Kg	☼	05/06/13 08:40	05/08/13 06:19	1
Selenium	2.5	U	2.5	0.99	mg/Kg	☼	05/06/13 08:40	05/08/13 06:19	1
Silver	0.99	U	0.99	0.095	mg/Kg	☼	05/06/13 08:40	05/08/13 06:19	1

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.020	0.0081	mg/Kg	☼	05/08/13 12:47	05/10/13 13:06	1

## Client Sample ID: CV0988A-CS-SP (sieve)

Lab Sample ID: 680-89896-22

Date Collected: 04/30/13 13:10

Matrix: Solid

Date Received: 05/02/13 10:30

Percent Solids: 79.7

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	28		2.3	0.69	mg/Kg	☼	05/06/13 08:40	05/08/13 06:36	1
Barium	370		1.2	0.35	mg/Kg	☼	05/06/13 08:40	05/08/13 06:36	1
Cadmium	3.8		0.58	0.12	mg/Kg	☼	05/06/13 08:40	05/08/13 06:36	1
Chromium	77		1.2	0.58	mg/Kg	☼	05/06/13 08:40	05/08/13 06:36	1
Lead	460		1.2	0.62	mg/Kg	☼	05/06/13 08:40	05/08/13 06:36	1
Selenium	2.9	U	2.9	1.2	mg/Kg	☼	05/06/13 08:40	05/08/13 06:36	1
Silver	0.47	J	1.2	0.11	mg/Kg	☼	05/06/13 08:40	05/08/13 06:36	1

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.37		0.022	0.0089	mg/Kg	☼	05/08/13 12:47	05/10/13 13:09	1

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTTE, October 2012)

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
 SDG: 68089896-2

**Client Sample ID: 050113-RB-Bowls&Spoons**

**Lab Sample ID: 680-89896-23**

Date Collected: 05/01/13 09:30

Matrix: Water

Date Received: 05/02/13 10:30

**Method: 200.7 Rev 4.4 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20	4.6	ug/L		05/06/13 09:55	05/07/13 23:09	1
Barium	10	U	10	2.3	ug/L		05/06/13 09:55	05/07/13 23:09	1
Cadmium	5.0	U	5.0	2.0	ug/L		05/06/13 09:55	05/07/13 23:09	1
Chromium	10	U	10	1.2	ug/L		05/06/13 09:55	05/07/13 23:09	1
Lead	10	U	10	4.0	ug/L		05/06/13 09:55	05/07/13 23:09	1
Selenium	20	U	20	6.4	ug/L		05/06/13 09:55	05/07/13 23:09	1
Silver	10	U	10	0.89	ug/L		05/06/13 09:55	05/07/13 23:09	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		05/07/13 12:09	05/08/13 17:39	1

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama. Revision 1 (OTIE, October 2012)

## ANALYTICAL REPORT

Job Number: 680-89896-2

SDG Number: 68089896-2

Job Description: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC  
1220 Kennestone Circle  
Suite 106  
Marietta, GA 30060

Attention: Ms. Limari F Krebs



Approved for release.  
Bernard Kirkland  
Project Manager I  
5/14/2013 4:51 PM

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Designee for  
Lisa Harvey, Project Manager II  
5102 LaRoche Avenue, Savannah, GA, 31404  
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lisa.harvey@testamericainc.com  
05/14/2013

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

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## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-89896-2**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### RECEIPT

The samples were received on 05/02/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.3 C.

### METALS (ICP)-Water

Sample 050113-RB-Bowls&Spoons (680-89896-23) was analyzed for Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 05/06/2013 and analyzed on 05/07/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

### TOTAL MERCURY-Water

Sample 050113-RB-Bowls&Spoons (680-89896-23) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared on 05/07/2013 and analyzed on 05/08/2013.

Mercury recovered outside the recovery criteria for the MS/MSD of sample 680-89934-1 in batch 680-276087.

Mercury also exceeded the rpd limit for the MSD of sample 680-89934-1 in batch 680-276087.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

No other difficulties were encountered during the mercury analysis.

All other quality control parameters were within the acceptance limits.

### METALS (ICP)

Samples CV0731A-CS-SP (680-89896-4), CV0662A-CS-SP (680-89896-6), CV0988A-CSD (680-89896-18), CV0662A-CS-SP (sieve) (680-89896-20), CV0731A-CS-SP (sieve) (680-89896-21) and CV0988A-CS-SP (sieve) (680-89896-22) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/06/2013 and analyzed on 05/08/2013.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0731A-CS-SP (680-89896-4) in batch 680-275916. Also, Arsenic, Barium and Lead exceeded the rpd limit.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

### TOTAL MERCURY

Samples CV0731A-CS-SP (680-89896-4), CV0662A-CS-SP (680-89896-6), CV0988A-CSD (680-89896-18), CV0662A-CS-SP (sieve) (680-89896-20), CV0731A-CS-SP (sieve) (680-89896-21) and CV0988A-CS-SP (sieve) (680-89896-22) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 05/08/2013 and analyzed on 05/10/2013.

Mercury recovered outside the recovery criteria for the MS of sample CV0731A-CS-SPMS (680-89896-4) in batch 680-276327.

No other difficulties were encountered during the mercury analyses.



All other quality control parameters were within the acceptance limits.

## SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89896-2  
Sdg Number: 68089896-2

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
680-89896-4	CV0731A-CS-SP	Solid	04/29/2013 1322	05/02/2013 1030
680-89896-4MS	CV0731A-CS-SP	Solid	04/29/2013 1322	05/02/2013 1030
680-89896-4MSD	CV0731A-CS-SP	Solid	04/29/2013 1322	05/02/2013 1030
680-89896-6	CV0662A-CS-SP	Solid	04/30/2013 1035	05/02/2013 1030
680-89896-18	CV0988A-CSD	Solid	04/30/2013 1310	05/02/2013 1030
680-89896-20	CV0662A-CS-SP (sieve)	Solid	04/30/2013 1035	05/02/2013 1030
680-89896-21	CV0731A-CS-SP (sieve)	Solid	04/29/2013 1322	05/02/2013 1030
680-89896-22	CV0988A-CS-SP (sieve)	Solid	04/30/2013 1310	05/02/2013 1030
680-89896-23	050113-RB-Bowls&Spoons	Water	05/01/2013 0930	05/02/2013 1030

## METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89896-2

Sdg Number: 68089896-2

Description	Lab Location	Method	Preparation Method
<b>Matrix: Solid</b>			
Metals (ICP)	TAL SAV	SW846 6010C	
Preparation, Metals	TAL SAV		SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL SAV	SW846 7471B	
Preparation, Mercury	TAL SAV		SW846 7471B
Percent Moisture	TAL SAV	EPA Moisture	
Percent Moisture	TAL TAM	EPA Moisture	
<b>Matrix: Water</b>			
Metals (ICP)	TAL SAV	40CFR136A 200.7 Rev 4.4	
Preparation, Total Metals	TAL SAV		EPA 200.7
Mercury (CVAA)	TAL SAV	EPA 245.1	
Preparation, Mercury	TAL SAV		EPA 245.1

**Lab References:**

TAL SAV = TestAmerica Savannah

TAL TAM = TestAmerica Tampa

**Method References:**

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89896-2

Sdg Number: 68089896-2

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
40CFR136A 200.7 Rev 4.4	Bland, Brian	BCB
EPA 245.1	Bland, Brian	BCB
SW846 6010C	Bland, Brian	BCB
SW846 7471B	Bland, Brian	BCB
EPA Moisture	Galio, Andrew	AG
EPA Moisture	Swafford, Frances	FS

## DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89896-2

Sdg Number: 68089896-2

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
Metals	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89896-2

Sdg Number: 68089896-2

### QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>Metals</b>					
<b>Prep Batch: 680-275575</b>					
LCS 680-275575/2-A	Lab Control Sample	T	Solid	3050B	
MB 680-275575/1-A	Method Blank	T	Solid	3050B	
680-89896-4	CV0731A-CS-SP	T	Solid	3050B	
680-89896-4MS	Matrix Spike	T	Solid	3050B	
680-89896-4MSD	Matrix Spike Duplicate	T	Solid	3050B	
680-89896-6	CV0662A-CS-SP	T	Solid	3050B	
680-89896-18	CV0988A-CSD	T	Solid	3050B	
680-89896-20	CV0662A-CS-SP (sieve)	T	Solid	3050B	
680-89896-21	CV0731A-CS-SP (sieve)	T	Solid	3050B	
680-89896-22	CV0988A-CS-SP (sieve)	T	Solid	3050B	
<b>Prep Batch: 680-275602</b>					
LCS 680-275602/2-A	Lab Control Sample	T	Water	200.7	
MB 680-275602/1-A	Method Blank	T	Water	200.7	
680-89876-A-10-B MS	Matrix Spike	T	Water	200.7	
680-89876-A-10-C MSD	Matrix Spike Duplicate	T	Water	200.7	
680-89896-23	050113-RB-Bowls&Spoons	T	Water	200.7	
<b>Prep Batch: 680-275763</b>					
LCS 680-275763/2-A	Lab Control Sample	T	Water	245.1	
MB 680-275763/1-A	Method Blank	T	Water	245.1	
680-89896-23	050113-RB-Bowls&Spoons	T	Water	245.1	
680-89934-A-1-C MS	Matrix Spike	T	Water	245.1	
680-89934-A-1-D MSD	Matrix Spike Duplicate	T	Water	245.1	
<b>Analysis Batch:680-275916</b>					
LCS 680-275575/2-A	Lab Control Sample	T	Solid	6010C	680-275575
MB 680-275575/1-A	Method Blank	T	Solid	6010C	680-275575
LCS 680-275602/2-A	Lab Control Sample	T	Water	200.7 Rev 4.4	680-275602
MB 680-275602/1-A	Method Blank	T	Water	200.7 Rev 4.4	680-275602
680-89876-A-10-B MS	Matrix Spike	T	Water	200.7 Rev 4.4	680-275602
680-89876-A-10-C MSD	Matrix Spike Duplicate	T	Water	200.7 Rev 4.4	680-275602
680-89896-4	CV0731A-CS-SP	T	Solid	6010C	680-275575
680-89896-4MS	Matrix Spike	T	Solid	6010C	680-275575
680-89896-4MSD	Matrix Spike Duplicate	T	Solid	6010C	680-275575
680-89896-6	CV0662A-CS-SP	T	Solid	6010C	680-275575
680-89896-18	CV0988A-CSD	T	Solid	6010C	680-275575
680-89896-20	CV0662A-CS-SP (sieve)	T	Solid	6010C	680-275575
680-89896-21	CV0731A-CS-SP (sieve)	T	Solid	6010C	680-275575
680-89896-22	CV0988A-CS-SP (sieve)	T	Solid	6010C	680-275575
680-89896-23	050113-RB-Bowls&Spoons	T	Water	200.7 Rev 4.4	680-275602



## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89896-2

Sdg Number: 68089896-2

### QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>Metals</b>					
<b>Prep Batch: 680-275956</b>					
LCS 680-275956/2-A	Lab Control Sample	T	Solid	7471B	
MB 680-275956/1-A	Method Blank	T	Solid	7471B	
680-89896-4	CV0731A-CS-SP	T	Solid	7471B	
680-89896-4MS	Matrix Spike	T	Solid	7471B	
680-89896-4MSD	Matrix Spike Duplicate	T	Solid	7471B	
680-89896-6	CV0662A-CS-SP	T	Solid	7471B	
680-89896-18	CV0988A-CSD	T	Solid	7471B	
680-89896-20	CV0662A-CS-SP (sieve)	T	Solid	7471B	
680-89896-21	CV0731A-CS-SP (sieve)	T	Solid	7471B	
680-89896-22	CV0988A-CS-SP (sieve)	T	Solid	7471B	
<b>Analysis Batch:680-276087</b>					
LCS 680-275763/2-A	Lab Control Sample	T	Water	245.1	680-275763
MB 680-275763/1-A	Method Blank	T	Water	245.1	680-275763
680-89896-23	050113-RB-Bowls&Spoons	T	Water	245.1	680-275763
680-89934-A-1-C MS	Matrix Spike	T	Water	245.1	680-275763
680-89934-A-1-D MSD	Matrix Spike Duplicate	T	Water	245.1	680-275763
<b>Analysis Batch:680-276327</b>					
LCS 680-275956/2-A	Lab Control Sample	T	Solid	7471B	680-275956
MB 680-275956/1-A	Method Blank	T	Solid	7471B	680-275956
680-89896-4	CV0731A-CS-SP	T	Solid	7471B	680-275956
680-89896-4MS	Matrix Spike	T	Solid	7471B	680-275956
680-89896-4MSD	Matrix Spike Duplicate	T	Solid	7471B	680-275956
680-89896-6	CV0662A-CS-SP	T	Solid	7471B	680-275956
680-89896-18	CV0988A-CSD	T	Solid	7471B	680-275956
680-89896-20	CV0662A-CS-SP (sieve)	T	Solid	7471B	680-275956
680-89896-21	CV0731A-CS-SP (sieve)	T	Solid	7471B	680-275956
680-89896-22	CV0988A-CS-SP (sieve)	T	Solid	7471B	680-275956

**Report Basis**

T = Total

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89896-2

Sdg Number: 68089896-2

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:660-137086</b>					
680-89896-4	CV0731A-CS-SP	T	Solid	Moisture	
680-89896-4MS	Matrix Spike	T	Solid	Moisture	
680-89896-4MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89896-6	CV0662A-CS-SP	T	Solid	Moisture	
680-89896-18	CV0988A-CSD	T	Solid	Moisture	
<b>Analysis Batch:680-275354</b>					
680-89896-20	CV0662A-CS-SP (sieve)	T	Solid	Moisture	
680-89896-21	CV0731A-CS-SP (sieve)	T	Solid	Moisture	
680-89896-22	CV0988A-CS-SP (sieve)	T	Solid	Moisture	

#### Report Basis

T = Total

# METALS

COVER PAGE  
METALS

Lab Name: TestAmerica Savannah Job Number: 680-89896-2

SDG No.: 68089896-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
<u>CV0731A-CS-SP</u>	<u>680-89896-4</u>
<u>CV0662A-CS-SP</u>	<u>680-89896-6</u>
<u>CV0988A-CSD</u>	<u>680-89896-18</u>
<u>CV0662A-CS-SP (sieve)</u>	<u>680-89896-20</u>
<u>CV0731A-CS-SP (sieve)</u>	<u>680-89896-21</u>
<u>CV0988A-CS-SP (sieve)</u>	<u>680-89896-22</u>
<u>050113-RB-Bowls&amp;Spoons</u>	<u>680-89896-23</u>

Comments:

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0731A-CS-SP

Lab Sample ID: 680-89896-4

Lab Name: TestAmerica Savannah

Job No.: 680-89896-2

SDG ID.: 68089896-2

Matrix: Solid

Date Sampled: 04/29/2013 13:22

Reporting Basis: DRY

Date Received: 05/02/2013 10:30

% Solids: 82.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	21	2.4	0.71	mg/Kg			1	6010C
7440-39-3	Barium	200	1.2	0.36	mg/Kg			1	6010C
7440-43-9	Cadmium	0.76	0.60	0.12	mg/Kg			1	6010C
7440-47-3	Chromium	41	1.2	0.60	mg/Kg			1	6010C
7439-92-1	Lead	120	1.2	0.64	mg/Kg			1	6010C
7782-49-2	Selenium	3.0	3.0	1.2	mg/Kg	U		1	6010C
7440-22-4	Silver	1.2	1.2	0.12	mg/Kg	U		1	6010C
7439-97-6	Mercury	0.24	0.021	0.0084	mg/Kg			1	7471B

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0662A-CS-SP

Lab Sample ID: 680-89896-6

Lab Name: TestAmerica Savannah

Job No.: 680-89896-2

SDG ID.: 68089896-2

Matrix: Solid

Date Sampled: 04/30/2013 10:35

Reporting Basis: DRY

Date Received: 05/02/2013 10:30

% Solids: 84.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	17	2.3	0.68	mg/Kg			1	6010C
7440-39-3	Barium	200	1.2	0.35	mg/Kg			1	6010C
7440-43-9	Cadmium	3.9	0.58	0.12	mg/Kg			1	6010C
7440-47-3	Chromium	17	1.2	0.58	mg/Kg			1	6010C
7439-92-1	Lead	420	1.2	0.61	mg/Kg			1	6010C
7782-49-2	Selenium	2.9	2.9	1.2	mg/Kg	U		1	6010C
7440-22-4	Silver	0.45	1.2	0.11	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.15	0.020	0.0083	mg/Kg			1	7471B



1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0988A-CSD Lab Sample ID: 680-89896-18  
 Lab Name: TestAmerica Savannah Job No.: 680-89896-2  
 SDG ID.: 68089896-2  
 Matrix: Solid Date Sampled: 04/30/2013 13:10  
 Reporting Basis: DRY Date Received: 05/02/2013 10:30  
 % Solids: 77.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	25	2.3	0.67	mg/Kg			1	6010C
7440-39-3	Barium	330	1.1	0.34	mg/Kg			1	6010C
7440-43-9	Cadmium	7.5	0.57	0.11	mg/Kg			1	6010C
7440-47-3	Chromium	71	1.1	0.57	mg/Kg			1	6010C
7439-92-1	Lead	480	1.1	0.61	mg/Kg			1	6010C
7782-49-2	Selenium	2.9	2.9	1.1	mg/Kg	U		1	6010C
7440-22-4	Silver	0.49	1.1	0.11	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.34	0.024	0.0098	mg/Kg			1	7471B

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0662A-CS-SP (sieve)

Lab Sample ID: 680-89896-20

Lab Name: TestAmerica Savannah

Job No.: 680-89896-2

SDG ID.: 68089896-2

Matrix: Solid

Date Sampled: 04/30/2013 10:35

Reporting Basis: DRY

Date Received: 05/02/2013 10:30

% Solids: 80.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	22	2.4	0.70	mg/Kg			1	6010C
7440-39-3	Barium	180	1.2	0.36	mg/Kg			1	6010C
7440-43-9	Cadmium	5.9	0.59	0.12	mg/Kg			1	6010C
7440-47-3	Chromium	28	1.2	0.59	mg/Kg			1	6010C
7439-92-1	Lead	600	1.2	0.63	mg/Kg			1	6010C
7782-49-2	Selenium	3.0	3.0	1.2	mg/Kg	U		1	6010C
7440-22-4	Silver	0.68	1.2	0.11	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.16	0.024	0.0097	mg/Kg			1	7471B

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0731A-CS-SP (sieve)

Lab Sample ID: 680-89896-21

Lab Name: TestAmerica Savannah

Job No.: 680-89896-2

SDG ID.: 68089896-2

Matrix: Solid

Date Sampled: 04/29/2013 13:22

Reporting Basis: DRY

Date Received: 05/02/2013 10:30

% Solids: 87.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	21	2.0	0.59	mg/Kg			1	6010C
7440-39-3	Barium	160	0.99	0.30	mg/Kg			1	6010C
7440-43-9	Cadmium	0.77	0.50	0.099	mg/Kg			1	6010C
7440-47-3	Chromium	33	0.99	0.50	mg/Kg			1	6010C
7439-92-1	Lead	310	0.99	0.53	mg/Kg			1	6010C
7782-49-2	Selenium	2.5	2.5	0.99	mg/Kg	U		1	6010C
7440-22-4	Silver	0.99	0.99	0.095	mg/Kg	U		1	6010C
7439-97-6	Mercury	0.24	0.020	0.0081	mg/Kg			1	7471B

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0988A-CS-SP (sieve)

Lab Sample ID: 680-89896-2

Lab Name: TestAmerica Savannah

Job No.: 680-89896-2

SDG ID.: 68089896-2

Matrix: Solid

Date Sampled: 04/30/2013 13:10

Reporting Basis: DRY

Date Received: 05/02/2013 10:30

% Solids: 79.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	28	2.3	0.69	mg/Kg			1	6010C
7440-39-3	Barium	370	1.2	0.35	mg/Kg			1	6010C
7440-43-9	Cadmium	3.8	0.58	0.12	mg/Kg			1	6010C
7440-47-3	Chromium	77	1.2	0.58	mg/Kg			1	6010C
7439-92-1	Lead	460	1.2	0.62	mg/Kg			1	6010C
7782-49-2	Selenium	2.9	2.9	1.2	mg/Kg	U		1	6010C
7440-22-4	Silver	0.47	1.2	0.11	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.37	0.022	0.0089	mg/Kg			1	7471B

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: 050113-RB-Bowls&Spoons

Lab Sample ID: 680-89896-23

Lab Name: TestAmerica Savannah

Job No.: 680-89896-2

SDG ID.: 68089896-2

Matrix: Water

Date Sampled: 05/01/2013 09:30

Reporting Basis: WET

Date Received: 05/02/2013 10:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	20	20	4.6	ug/L	U		1	200.7 Rev 4.4
7440-39-3	Barium	10	10	2.3	ug/L	U		1	200.7 Rev 4.4
7440-43-9	Cadmium	5.0	5.0	2.0	ug/L	U		1	200.7 Rev 4.4
7440-47-3	Chromium	10	10	1.2	ug/L	U		1	200.7 Rev 4.4
7439-92-1	Lead	10	10	4.0	ug/L	U		1	200.7 Rev 4.4
7782-49-2	Selenium	20	20	6.4	ug/L	U		1	200.7 Rev 4.4
7440-22-4	Silver	10	10	0.89	ug/L	U		1	200.7 Rev 4.4
7439-97-6	Mercury	0.20	0.20	0.091	ug/L	U		1	245.1

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

ICV Source: P\_ICV\_wk\_00215 Concentration Units: ug/L

CCV Source: P\_CCV\_wk\_00110

Analyte	ICV 680-275916/4 05/07/2013 15:15				CCV 680-275916/84 05/07/2013 22:47				CCV 680-275916/96 05/07/2013 23:52			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Arsenic</b>	986		1000	99	495		500	99	498		500	100
<b>Barium</b>	1040		1000	104	5100		5000	102	5110		5000	102
<b>Cadmium</b>	1050		1000	105	513		500	103	513		500	103
<b>Chromium</b>	1030		1000	103	5160		5000	103	5160		5000	103
<b>Lead</b>	1020		1000	102	493		500	99	494		500	99
<b>Selenium</b>	992		1000	99	4880		5000	98	4900		5000	98
<b>Silver</b>	988		1000	99	490		500	98	492		500	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Italicized analytes were not requested for this sequence.

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

ICV Source: P\_ICV\_wk\_00215 Concentration Units: ug/L

CCV Source: P\_CCV\_wk\_00110

Analyte	CCV 680-275916/108 05/08/2013 00:58				CCV 680-275916/144 05/08/2013 04:14				CCV 680-275916/156 05/08/2013 05:20			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Arsenic</b>	504		500	101	497		500	99	480		500	96
<b>Barium</b>	5160		5000	103	5100		5000	102	4940		5000	99
<b>Cadmium</b>	516		500	103	513		500	103	492		500	98
<b>Chromium</b>	5210		5000	104	5160		5000	103	4980		5000	100
<b>Lead</b>	498		500	100	491		500	98	473		500	95
<b>Selenium</b>	4940		5000	99	4900		5000	98	4720		5000	94
<b>Silver</b>	496		500	99	491		500	98	470		500	94

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Italicized analytes were not requested for this sequence.

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

ICV Source: P\_ICV\_wk\_00215 Concentration Units: ug/L

CCV Source: P\_CCV\_wk\_00110

Analyte	CCV 680-275916/168 05/08/2013 06:25				CCV 680-275916/180 05/08/2013 07:30							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Arsenic</b>	480		500	96	477		500	95				
<b>Barium</b>	4970		5000	99	4920		5000	98				
<b>Cadmium</b>	494		500	99	486		500	97				
<b>Chromium</b>	5010		5000	100	4960		5000	99				
<b>Lead</b>	475		500	95	470		500	94				
<b>Selenium</b>	4720		5000	94	4660		5000	93				
<b>Silver</b>	472		500	94	468		500	94				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Italicized analytes were not requested for this sequence.



2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

ICV Source: hg\_icvint\_00086 Concentration Units: ug/L

CCV Source: Hg\_Int\_Cal\_00092

Analyte	ICV 680-275755/23-A 05/08/2013 12:24				CCV 680-275755/20-A 05/08/2013 16:23				CCV 680-275755/20-A 05/08/2013 16:53			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Mercury</b>	2.94		3.00	98	2.61		2.50	104	2.65		2.50	106

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Italicized analytes were not requested for this sequence.

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

ICV Source: hg\_icvint\_00086 Concentration Units: ug/L

CCV Source: Hg\_Int\_Cal\_00092

Analyte	CCV 680-275755/20-A 05/08/2013 17:22				CCV 680-275755/20-A 05/08/2013 17:52							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Mercury</b>	2.63		2.50	105	2.70		2.50	108				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Italicized analytes were not requested for this sequence.

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2  
 SDG No.: 68089896-2  
 ICV Source: hg\_icvint\_00086 Concentration Units: ug/L  
 CCV Source: Hg\_Int\_Cal\_00092

Analyte	ICV 680-275956/40-A 05/10/2013 10:44				CCV 680-275956/37-A 05/10/2013 11:50				CCV 680-275956/37-A 05/10/2013 12:19			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Mercury</b>	3.06		3.00	102	2.60		2.50	104	2.40		2.50	96

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Italicized analytes were not requested for this sequence.

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

ICV Source: hg\_icvint\_00086 Concentration Units: ug/L

CCV Source: Hg\_Int\_Cal\_00092

Analyte	CCV 680-275956/37-A 05/10/2013 12:49				CCV 680-275956/37-A 05/10/2013 13:19							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Mercury</b>	2.39		2.50	95	2.37		2.50	95				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Italicized analytes were not requested for this sequence.

2B-IN  
CRQL CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2  
 SDG No.: 68089896-2  
 Method: 200.7 Rev 4.4 Instrument ID: ICPE  
 Lab Sample ID: CRI 680-275916/6 Concentration Units: ug/L  
 CRQL Check Standard Source: P\_CRI\_00023

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	24.9		124	50-150
Barium	10.0	9.97	J	100	50-150
Cadmium	5.00	5.18		104	50-150
Chromium	10.0	10.2		102	50-150
Lead	10.0	10.3		103	50-150
Selenium	20.0	17.9	J	90	50-150
Silver	10.0	9.79	J	98	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2B-IN  
CRQL CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2  
 SDG No.: 68089896-2  
 Method: 245.1 Instrument ID: LEEMAN2  
 Lab Sample ID: CRA 680-275755/25-A Concentration Units: ug/L  
 CRQL Check Standard Source: Hg\_Int\_Cal\_00092

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.176	J	88	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2B-IN  
CRQL CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2  
 SDG No.: 68089896-2  
 Method: 7471B Instrument ID: LEEMAN2  
 Lab Sample ID: CRA 680-275956/42-A Concentration Units: ug/L  
 CRQL Check Standard Source: Hg\_Int\_Cal\_00092

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.197	J	99	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Concentration Units: ug/L

Analyte	RL	ICBIS 680-275916/5 05/07/2013 15:20		CCB 680-275916/85 05/07/2013 22:53		CCB 680-275916/97 05/07/2013 23:58		CCB 680-275916/109 05/08/2013 01:03	
		Found	C	Found	C	Found	C	Found	C
<b>Arsenic</b>	20	20	U	20	U	20	U	20	U
<b>Barium</b>	10	10	U	10	U	10	U	10	U
<b>Cadmium</b>	5.0	5.0	U	5.0	U	5.0	U	5.0	U
<b>Chromium</b>	10	10	U	10	U	10	U	10	U
<b>Lead</b>	10	10	U	10	U	10	U	10	U
<b>Selenium</b>	20	20	U	20	U	20	U	20	U
<b>Silver</b>	10	10	U	10	U	10	U	10	U

Italicized analytes were not requested for this sequence.



3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Concentration Units: ug/L

Analyte	RL	CCB 680-275916/145 05/08/2013 04:20		CCB 680-275916/157 05/08/2013 05:25		CCB 680-275916/169 05/08/2013 06:30		CCB 680-275916/181 05/08/2013 07:36	
		Found	C	Found	C	Found	C	Found	C
<b>Arsenic</b>	20	20	U	20	U	20	U	20	U
<b>Barium</b>	10	10	U	10	U	10	U	10	U
<b>Cadmium</b>	5.0	5.0	U	5.0	U	5.0	U	5.0	U
<b>Chromium</b>	10	10	U	10	U	10	U	10	U
<b>Lead</b>	10	10	U	10	U	10	U	10	U
<b>Selenium</b>	20	25	U	25	U	25	U	25	U
<b>Silver</b>	10	10	U	10	U	10	U	10	U

Italicized analytes were not requested for this sequence.

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Concentration Units: ug/L

Analyte	RL	ICB 680-275755/24-A 05/08/2013 12:26		CCB 680-275755/21-A 05/08/2013 16:26		CCB 680-275755/21-A 05/08/2013 16:55		CCB 680-275755/21-A 05/08/2013 17:25	
		Found	C	Found	C	Found	C	Found	C
<b>Mercury</b>	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Concentration Units: ug/L

Analyte	RL	CCB 680-275755/21-A 05/08/2013 17:54		Found	C	Found	C	Found	C
		Found	C						
<b>Mercury</b>	0.20	0.20	U						

Italicized analytes were not requested for this sequence.

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Concentration Units: ug/L

Analyte	RL	ICB 680-275956/41-A 05/10/2013 10:46		CCB 680-275956/38-A 05/10/2013 11:52		CCB 680-275956/38-A 05/10/2013 12:22		CCB 680-275956/38-A 05/10/2013 12:51	
		Found	C	Found	C	Found	C	Found	C
<b>Mercury</b>	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Concentration Units: ug/L

Analyte	RL	CCB 680-275956/38-A 05/10/2013 13:21							
		Found	C	Found	C	Found	C	Found	C
<b>Mercury</b>	0.20	0.20	U						

Italicized analytes were not requested for this sequence.

3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2  
SDG No.: 68089896-2  
Concentration Units: ug/L Lab Sample ID: MB 680-275602/1-A  
Instrument Code: ICPE Batch No.: 275916

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	20	U		200.7_CWA
7440-39-3	Barium	10	U		200.7_CWA
7440-43-9	Cadmium	5.0	U		200.7_CWA
7440-47-3	Chromium	10	U		200.7_CWA
7439-92-1	Lead	10	U		200.7_CWA
7782-49-2	Selenium	20	U		200.7_CWA
7440-22-4	Silver	10	U		200.7_CWA

3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2  
SDG No.: 68089896-2  
Concentration Units: mg/Kg Lab Sample ID: MB 680-275575/1-A  
Instrument Code: ICPE Batch No.: 275916

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	2.0	U		6010C
7440-39-3	Barium	0.98	U		6010C
7440-43-9	Cadmium	0.49	U		6010C
7440-47-3	Chromium	0.98	U		6010C
7439-92-1	Lead	0.98	U		6010C
7782-49-2	Selenium	2.5	U		6010C
7440-22-4	Silver	0.98	U		6010C

3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2  
SDG No.: 68089896-2  
Concentration Units: ug/L Lab Sample ID: MB 680-275763/1-A  
Instrument Code: LEEMAN2 Batch No.: 276087

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.20	U		245.1



3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2  
SDG No.: 68089896-2  
Concentration Units: mg/Kg Lab Sample ID: MB 680-275956/1-A  
Instrument Code: LEEMAN2 Batch No.: 276327

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.020	U		7471B

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-89896-2

SDG No.: 68089896-2

Lab Sample ID: ICSA 680-275916/7

Instrument ID: ICPE

Lab File ID: E05072013AP.csv

ICS Source: P\_ICSA\_wk\_00032

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
<b>Arsenic</b>		<b>-4.24</b>	
<b>Barium</b>		<b>1.59</b>	
<b>Cadmium</b>		<b>1.37</b>	
<b>Chromium</b>		<b>0.348</b>	
<b>Lead</b>		<b>1.21</b>	
<b>Selenium</b>		<b>-6.39</b>	
<b>Silver</b>		<b>-0.686</b>	
<i>Aluminum</i>	<i>500000</i>	<i>521052</i>	<i>104</i>
<i>Antimony</i>		<i>5.46</i>	
<i>Beryllium</i>		<i>-0.156</i>	
<i>Boron</i>		<i>-2.19</i>	
<i>Calcium</i>	<i>500000</i>	<i>481478</i>	<i>96</i>
<i>Cobalt</i>		<i>1.35</i>	
<i>Copper</i>		<i>-6.06</i>	
<i>Iron</i>	<i>200000</i>	<i>185785</i>	<i>93</i>
<i>Magnesium</i>	<i>500000</i>	<i>517073</i>	<i>103</i>
<i>Manganese</i>		<i>0.854</i>	
<i>Molybdenum</i>		<i>1.66</i>	
<i>Nickel</i>		<i>4.64</i>	
<i>Potassium</i>		<i>6.49</i>	
<i>Sodium</i>		<i>63.9</i>	
<i>Strontium</i>		<i>7.98</i>	
<i>Thallium</i>		<i>-6.56</i>	
<i>Tin</i>		<i>4.48</i>	
<i>Titanium</i>		<i>1.89</i>	
<i>Vanadium</i>		<i>1.16</i>	
<i>Zinc</i>		<i>12.2</i>	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-89896-2

SDG No.: 68089896-2

Lab Sample ID: ICSAB 680-275916/8

Instrument ID: ICPE

Lab File ID: E05072013AP.csv

ICS Source: P\_ICSAB\_wk\_00045

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
<b>Arsenic</b>	<b>100</b>	<b>112</b>	<b>112</b>
<b>Barium</b>	<b>500</b>	<b>527</b>	<b>105</b>
<b>Cadmium</b>	<b>1000</b>	<b>1008</b>	<b>101</b>
<b>Chromium</b>	<b>500</b>	<b>516</b>	<b>103</b>
<b>Lead</b>	<b>50.0</b>	<b>50.1</b>	<b>100</b>
<b>Selenium</b>	<b>50.0</b>	<b>47.7</b>	<b>95</b>
<b>Silver</b>	<b>200</b>	<b>220</b>	<b>110</b>
<i>Aluminum</i>	<i>500000</i>	<i>535194</i>	<i>107</i>
<i>Antimony</i>	<i>600</i>	<i>640</i>	<i>107</i>
<i>Beryllium</i>	<i>500</i>	<i>511</i>	<i>102</i>
<i>Boron</i>		<i>-7.10</i>	
<i>Calcium</i>	<i>500000</i>	<i>491240</i>	<i>98</i>
<i>Cobalt</i>	<i>500</i>	<i>504</i>	<i>101</i>
<i>Copper</i>	<i>500</i>	<i>564</i>	<i>113</i>
<i>Iron</i>	<i>200000</i>	<i>190692</i>	<i>95</i>
<i>Magnesium</i>	<i>500000</i>	<i>530552</i>	<i>106</i>
<i>Manganese</i>	<i>500</i>	<i>534</i>	<i>107</i>
<i>Molybdenum</i>	<i>1000</i>	<i>1093</i>	<i>109</i>
<i>Nickel</i>	<i>1000</i>	<i>994</i>	<i>99</i>
<i>Potassium</i>		<i>-1.31</i>	
<i>Sodium</i>		<i>-244</i>	
<i>Strontium</i>		<i>9.02</i>	
<i>Thallium</i>	<i>100</i>	<i>94.0</i>	<i>94</i>
<i>Tin</i>	<i>1000</i>	<i>1026</i>	<i>103</i>
<i>Titanium</i>		<i>1.90</i>	
<i>Vanadium</i>	<i>500</i>	<i>502</i>	<i>100</i>
<i>Zinc</i>	<i>1000</i>	<i>999</i>	<i>100</i>

Calculations are performed before rounding to avoid round-off errors in calculated results.

5A-IN  
 MATRIX SPIKE SAMPLE RECOVERY  
 METALS

Client ID: CV0731A-CS-SP MS

Lab ID: 680-89896-4 MS

Lab Name: TestAmerica Savannah

Job No.: 680-89896-2

SDG No.: 68089896-2

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 82.4

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	44.1	21	11.8	194	75-125	F	6010C
Barium	244	200	11.8	364	75-125	4	6010C
Cadmium	6.25	0.76	5.89	93	75-125		6010C
Chromium	67.7	41	11.8	230	75-125	F	6010C
Lead	147	120	5.89	433	75-125	4	6010C
Selenium	9.81	3.0 U	11.8	83	75-125		6010C
Silver	6.67	1.2 U	5.89	113	75-125		6010C
Mercury	0.323	0.24	0.115	76	80-120	F	7471B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Note - Results and Reporting Limits have been adjusted for dry weight.

5A-IN  
 MATRIX SPIKE SAMPLE RECOVERY  
 METALS

Client ID: \_\_\_\_\_ Lab ID: 680-89876-A-10-B MS  
 Lab Name: TestAmerica Savannah Job No.: 680-89896-2  
 SDG No.: 68089896-2  
 Matrix: Water Concentration Units: ug/L  
 % Solids: \_\_\_\_\_

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	109	20 U	100	109	75-125		200.7 Rev 4.4
Barium	128	21	100	107	75-125		200.7 Rev 4.4
Cadmium	52.9	5.0 U	50.0	106	75-125		200.7 Rev 4.4
Chromium	108	10 U	100	108	75-125		200.7 Rev 4.4
Lead	54.2	10 U	50.0	108	75-125		200.7 Rev 4.4
Selenium	103	20 U	100	103	75-125		200.7 Rev 4.4
Silver	50.9	10 U	50.0	102	75-125		200.7 Rev 4.4

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

5A-IN  
 MATRIX SPIKE SAMPLE RECOVERY  
 METALS

Client ID: \_\_\_\_\_ Lab ID: 680-89934-A-1-C MS  
 Lab Name: TestAmerica Savannah Job No.: 680-89896-2  
 SDG No.: 68089896-2  
 Matrix: Water Concentration Units: ug/L  
 % Solids: \_\_\_\_\_

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	1.35	0.20 U	1.00	135	70-130	F	245.1

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

5A-IN  
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY  
 METALS

Client ID: CV0731A-CS-SP MSD

Lab ID: 680-89896-4 MSD

Lab Name: TestAmerica Savannah

Job No.: 680-89896-2

SDG No.: 68089896-2

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 82.4

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	35.8	11.9	122	75-125	21	20	F	6010C
Barium	154	11.9	-390	75-125	45	20	4 F	6010C
Cadmium	6.06	5.95	89	75-125	3	20		6010C
Chromium	66.2	11.9	214	75-125	2	20	F	6010C
Lead	103	5.95	-302	75-125	35	20	4 F	6010C
Selenium	9.85	11.9	83	75-125	0	20		6010C
Silver	5.78	5.95	97	75-125	14	20		6010C
Mercury	0.354	0.105	113	80-120	9	20		7471B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Note - Results and Reporting Limits have been adjusted for dry weight.

5A-IN  
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY  
 METALS

Client ID: \_\_\_\_\_ Lab ID: 680-89876-A-10-C MSD  
 Lab Name: TestAmerica Savannah Job No.: 680-89896-2  
 SDG No.: 68089896-2  
 Matrix: Water Concentration Units: ug/L  
 % Solids: \_\_\_\_\_

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	109	100	109	75-125	1	20		200.7 Rev 4.4
Barium	124	100	103	75-125	3	20		200.7 Rev 4.4
Cadmium	51.3	50.0	103	75-125	3	20		200.7 Rev 4.4
Chromium	104	100	104	75-125	3	20		200.7 Rev 4.4
Lead	51.3	50.0	103	75-125	6	20		200.7 Rev 4.4
Selenium	96.8	100	97	75-125	6	20		200.7 Rev 4.4
Silver	48.7	50.0	97	75-125	4	20		200.7 Rev 4.4

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.



5A-IN  
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY  
 METALS

Client ID: \_\_\_\_\_ Lab ID: 680-89934-A-1-D MSD  
 Lab Name: TestAmerica Savannah Job No.: 680-89896-2  
 SDG No.: 68089896-2  
 Matrix: Water Concentration Units: ug/L  
 % Solids: \_\_\_\_\_

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.876	1.00	88	70-130	42	20	F	245.1

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

5B-IN  
 POST DIGESTION SPIKE SAMPLE RECOVERY  
 METALS

Client ID: CV0731A-CS-SP PDS

Lab ID: 680-89896-4 PDS

Lab Name: TestAmerica Savannah

Job No.: 680-89896-2

SDG No.: 68089896-2

Matrix: Solid

Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	268	21	240	103	75-125		6010C
Barium	429	200	240	95	75-125		6010C
Cadmium	6.48	0.76	6.01	95	75-125		6010C
Chromium	63.4	41	24.0	95	75-125		6010C
Lead	173	120	60.1	86	75-125		6010C
Selenium	231	3.0	240	96	75-125		6010C
Silver	5.68	1.2	6.01	95	75-125		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Note - Results and Reporting Limits have been adjusted for dry weight.

5B-IN  
 POST DIGESTION SPIKE SAMPLE RECOVERY  
 METALS

Client ID: 050113-RB-Bowls&Spoons PDS

Lab ID: 680-89896-23 PDS

Lab Name: TestAmerica Savannah

Job No.: 680-89896-2

SDG No.: 68089896-2

Matrix: Water

Concentration Units: ug/L

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	2090	20 U	2000	104	75-125		200.7 Rev 4.4
Barium	2080	10 U	2000	104	75-125		200.7 Rev 4.4
Cadmium	51.3	5.0 U	50.0	103	75-125		200.7 Rev 4.4
Chromium	207	10 U	200	104	75-125		200.7 Rev 4.4
Lead	493	10 U	500	99	75-125		200.7 Rev 4.4
Selenium	1950	20 U	2000	97	75-125		200.7 Rev 4.4
Silver	47.9	10 U	50.0	96	75-125		200.7 Rev 4.4

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN  
LAB CONTROL SAMPLE  
METALS

Lab ID: LCS 680-275602/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-89896-2

Sample Matrix: Water

LCS Source: MS\_LCS1\_WK\_00003

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	100	107		107	85	115		200.7 Rev 4.4
Barium	100	104		104	85	115		200.7 Rev 4.4
Cadmium	50.0	52.2		104	85	115		200.7 Rev 4.4
Chromium	100	105		105	85	115		200.7 Rev 4.4
Lead	50.0	50.5		101	85	115		200.7 Rev 4.4
Selenium	100	96.3		96	85	115		200.7 Rev 4.4
Silver	50.0	49.7		99	85	115		200.7 Rev 4.4

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN  
LAB CONTROL SAMPLE  
METALS

Lab ID: LCS 680-275575/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-89896-2

Sample Matrix: Solid

LCS Source: MS\_LCS1\_WK\_00003

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	9.90	10.2		103	75	125		6010C
Barium	9.90	10.2		103	75	125		6010C
Cadmium	4.95	5.16		104	75	125		6010C
Chromium	9.90	10.4		105	75	125		6010C
Lead	4.95	4.86		98	75	125		6010C
Selenium	9.90	9.39		95	75	125		6010C
Silver	4.95	4.86		98	75	125		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN  
LAB CONTROL SAMPLE  
METALS

Lab ID: LCS 680-275763/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-89896-2

Sample Matrix: Water

LCS Source: Hg\_Int\_Cal\_00092

Analyte	Water (ug/L)						
	True	Found	C	%R	Limits	Q	Method
Mercury	2.50	2.56		102	85    115		245.1

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN  
LAB CONTROL SAMPLE  
METALS

Lab ID: LCS 680-275956/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-89896-2

Sample Matrix: Solid

LCS Source: Hg\_Int\_Cal\_00092

Analyte	Solid(mg/Kg)						
	True	Found	C	%R	Limits	Q	Method
Mercury	0.245	0.228		93	80      120		7471B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN  
ICP-AES AND ICP-MS SERIAL DILUTIONS  
METALS

Lab ID: 680-89896-4

SDG No: 68089896-2

Lab Name: TestAmerica Savannah

Job No: 680-89896-2

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	Method
Arsenic	21	26.0	NC		6010C
Barium	200	206	2.7		6010C
Cadmium	0.76	3.0 U	NC		6010C
Chromium	41	42.1	3.4		6010C
Lead	120	125	3.3		6010C
Selenium	3.0 U	15 U	NC		6010C
Silver	1.2 U	6.0 U	NC		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN



8-IN  
ICP-AES AND ICP-MS SERIAL DILUTIONS  
METALS

Lab ID: 680-89896-23

SDG No: 68089896-2

Lab Name: TestAmerica Savannah

Job No: 680-89896-2

Matrix: Water

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	Method
		C		C			
Arsenic	20	U	100	U	NC		200.7 Rev 4.4
Barium	10	U	50	U	NC		200.7 Rev 4.4
Cadmium	5.0	U	25	U	NC		200.7 Rev 4.4
Chromium	10	U	50	U	NC		200.7 Rev 4.4
Lead	10	U	50	U	NC		200.7 Rev 4.4
Selenium	20	U	100	U	NC		200.7 Rev 4.4
Silver	10	U	50	U	NC		200.7 Rev 4.4

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN  
DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-89896-2

SDG Number: 68089896-2

Matrix: Water

Instrument ID: ICPE

Method: 200.7 Rev 4.4

MDL Date: 06/02/2009 00:00

Prep Method: 200.7

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Arsenic		20	4.6
Barium		10	2.3
Cadmium		5	2
Chromium		10	1.2
Lead		10	4
Selenium		20	6.4
Silver		10	0.89

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah Job Number: 680-89896-2  
SDG Number: 68089896-2  
Matrix: Water Instrument ID: ICPE  
Method: 200.7 Rev 4.4 XMDL Date: 06/02/2009 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Arsenic		20	4.6
Barium		10	2.3
Cadmium		5	2
Chromium		10	1.2
Lead		10	4
Selenium		20	6.4
Silver		10	0.89

9-IN  
DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-89896-2

SDG Number: 68089896-2

Matrix: Solid

Instrument ID: ICPE

Method: 6010C

MDL Date: 06/02/2009 00:00

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Arsenic		2	0.59
Barium		1	0.3
Cadmium		0.5	0.1
Chromium		1	0.5
Lead		1	0.53
Selenium		2.5	1
Silver		1	0.096

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-89896-2

SDG Number: 68089896-2

Matrix: Solid

Instrument ID: ICPE

Method: 6010C

XMDL Date: 06/02/2009 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Arsenic		20	5.9
Barium		10	3
Cadmium		5	1
Chromium		10	5
Lead		10	5.3
Selenium		25	10
Silver		10	0.96

9-IN  
DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah Job Number: 680-89896-2  
SDG Number: 68089896-2  
Matrix: Water Instrument ID: LEEMAN2  
Method: 245.1 MDL Date: 06/02/2009 00:00  
Prep Method: 245.1

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury		0.2	0.091

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah Job Number: 680-89896-2  
SDG Number: 68089896-2  
Matrix: Water Instrument ID: LEEMAN2  
Method: 245.1 XMDL Date: 06/02/2009 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.091

9-IN  
DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah Job Number: 680-89896-2  
SDG Number: 68089896-2  
Matrix: Solid Instrument ID: LEEMAN2  
Method: 7471B MDL Date: 06/02/2009 00:00  
Prep Method: 7471B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Mercury		0.02	0.0082



9-IN  
CALIBRATION BLANK DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah Job Number: 680-89896-2  
SDG Number: 68089896-2  
Matrix: Solid Instrument ID: LEEMAN2  
Method: 7471B XMDL Date: 06/01/2008 15:53

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.08

10-IN  
ICP-AES INTERELEMENT CORRECTION FACTORS  
METALS

Lab Name: TestAmerica Savannah Job Number: 680-89896-2

SDG No.: 68089896-2

ICP-AES Instrument ID: ICPE Date: 03/05/2013

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg
Aluminum	308.215														
Antimony	206.834						0.007900				0.009800		0.000023		
Arsenic	188.980							0.000037					-0.000016		
Barium	389.178												0.000062		0.000112
Beryllium	313.042														
Boron	249.678												-0.000101		
Cadmium	226.502												0.000066		
Calcium	370.602												-0.025890		
Chromium	267.716								-0.000200				0.000005		
Cobalt	228.615										0.000280		-0.000003		
Copper	324.754												0.000006		
Iron	271.441									0.090560	0.001160				
Lead	220.353		-0.000011							-0.000200					
Magnesium	279.078		-0.000142										0.000087		
Manganese	257.610												0.000012		0.000025
Molybdenum	202.032												-0.000007		
Nickel	231.604												0.000008		
Potassium	766.491														
Selenium	196.026												0.000012		
Silver	328.068														
Sodium	330.237												-0.005902		
Strontium	216.596							0.000009					0.000039		
Thallium	190.794									0.000530			-0.000052		
Tin	189.925														
Titanium	334.941														
Vanadium	292.401											-0.002240			
Zinc	206.200											-0.001960			

10-IN  
ICP-AES INTERELEMENT CORRECTION FACTORS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-89896-2

SDG No.: 68089896-2

ICP-AES Instrument ID: ICPE

Date: 03/05/2013

Analyte	Wave Length	Mn	Mo	Na	Ni	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn
Aluminum	308.215		0.023030										-0.003100	
Antimony	206.834		-0.013600						0.000200					
Arsenic	188.980		-0.000430											
Barium	389.178		0.000218										0.000095	
Beryllium	313.042		-0.000082										-0.000019	
Boron	249.678													
Cadmium	226.502													
Calcium	370.602	0.008800									0.058100		0.003040	
Chromium	267.716	0.000090											-0.000200	
Cobalt	228.615		-0.002900						-0.000060		0.002250			
Copper	324.754		0.000550										-0.000200	
Iron	271.441		0.000760										0.004220	
Lead	220.353	0.000130	-0.000800									-0.000325		
Magnesium	279.078	-0.007600												
Manganese	257.610													
Molybdenum	202.032												-0.000260	
Nickel	231.604													
Potassium	766.491													
Selenium	196.026	0.000500												
Silver	328.068	0.000061								-0.000600			0.000081	
Sodium	330.237										-0.150825			-0.144400
Strontium	216.596		-0.003360		-0.001575									
Thallium	190.794	-0.001466	-0.000433										0.000500	
Tin	189.925													
Titanium	334.941													
Vanadium	292.401		-0.007130								0.000575			
Zinc	206.200													

11-IN  
LINEAR RANGES  
METALS

Lab Name: TestAmerica Savannah

Job No: 680-89896-2

SDG No.: 68089896-2

Instrument ID: ICPE

Date: 02/27/2012 11:40

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Arsenic		18000	200.7 Rev 4.4
Barium		18000	200.7 Rev 4.4
Cadmium		9000	200.7 Rev 4.4
Chromium		22500	200.7 Rev 4.4
Lead		18000	200.7 Rev 4.4
Selenium		22500	200.7 Rev 4.4
Silver		1800	200.7 Rev 4.4

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-89896-2

SDG No.: 68089896-2

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-275575/1-A	05/06/2013 08:40	275575	1.02		100
LCS 680-275575/2-A	05/06/2013 08:40	275575	1.01		100
680-89896-4	05/06/2013 08:40	275575	1.01		100
680-89896-4 MS	05/06/2013 08:40	275575	1.03		100
680-89896-4 MSD	05/06/2013 08:40	275575	1.02		100
680-89896-6	05/06/2013 08:40	275575	1.03		100
680-89896-18	05/06/2013 08:40	275575	1.13		100
680-89896-20	05/06/2013 08:40	275575	1.04		100
680-89896-21	05/06/2013 08:40	275575	1.15		100
680-89896-22	05/06/2013 08:40	275575	1.08		100

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Prep Method: 200.7

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 680-275602/1-A	05/06/2013 09:55	275602		50	50
LCS 680-275602/2-A	05/06/2013 09:55	275602		50	50
680-89896-23	05/06/2013 09:55	275602		50	50
680-89876-A-10-B MS	05/06/2013 09:55	275602		50	50
680-89876-A-10-C MSD	05/06/2013 09:55	275602		50	50

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-89896-2

SDG No.: 68089896-2

Prep Method: 245.1

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 680-275763/1-A	05/07/2013 12:09	275763		50	50
LCS 680-275763/2-A	05/07/2013 12:09	275763		50	50
680-89934-A-1-C MS	05/07/2013 12:09	275763		50	50
680-89934-A-1-D MSD	05/07/2013 12:09	275763		50	50
680-89896-23	05/07/2013 12:09	275763		50	50

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Prep Method: 7471B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-275956/1-A	05/08/2013 12:47	275956	0.50		50
LCS 680-275956/2-A	05/08/2013 12:47	275956	0.51		50
680-89896-4	05/08/2013 12:47	275956	0.59		50
680-89896-4 MS	05/08/2013 12:47	275956	0.53		50
680-89896-4 MSD	05/08/2013 12:47	275956	0.58		50
680-89896-6	05/08/2013 12:47	275956	0.59		50
680-89896-18	05/08/2013 12:47	275956	0.54		50
680-89896-20	05/08/2013 12:47	275956	0.52		50
680-89896-21	05/08/2013 12:47	275956	0.58		50
680-89896-22	05/08/2013 12:47	275956	0.58		50



13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Instrument ID: ICPE Method: 200.7 Rev 4.4

Start Date: 05/07/2013 14:58 End Date: 05/08/2013 09:48

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			14:58																
ZZZZZZ			15:04																
ZZZZZZ			15:09																
ICV 680-275916/4	1		15:15	X	X	X	X	X	X	X									
ICBIS 680-275916/5	1		15:20	X	X	X	X	X	X	X									
CRI 680-275916/6	1		15:26	X	X	X	X	X	X	X									
ICSA 680-275916/7	1		15:31	X	X	X	X	X	X	X									
ICSAB 680-275916/8	1		15:37	X	X	X	X	X	X	X									
ZZZZZZ			15:47																
ZZZZZZ			15:52																
ZZZZZZ			15:58																
CCV 680-275916/12			16:03																
CCB 680-275916/13			16:16																
ZZZZZZ			16:22																
ZZZZZZ			16:27																
ZZZZZZ			16:38																
ZZZZZZ			16:44																
ZZZZZZ			16:49																
ZZZZZZ			16:54																
ZZZZZZ			17:00																
ZZZZZZ			17:05																
ZZZZZZ			17:11																
ZZZZZZ			17:16																
CCV 680-275916/24			17:22																
CCB 680-275916/25			17:27																
ZZZZZZ			17:32																
ZZZZZZ			17:38																
ZZZZZZ			17:43																
ZZZZZZ			17:49																
ZZZZZZ			17:54																
ZZZZZZ			17:59																
ZZZZZZ			18:05																
ZZZZZZ			18:10																
ZZZZZZ			18:16																
ZZZZZZ			18:21																
CCV 680-275916/36			18:27																
CCB 680-275916/37			18:32																
ZZZZZZ			18:38																
ZZZZZZ			18:43																
ZZZZZZ			18:48																
ZZZZZZ			18:54																
ZZZZZZ			18:59																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Instrument ID: ICPE Method: 200.7 Rev 4.4

Start Date: 05/07/2013 14:58 End Date: 05/08/2013 09:48

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			19:05																
ZZZZZZ			19:10																
ZZZZZZ			19:15																
ZZZZZZ			19:21																
ZZZZZZ			19:26																
CCV 680-275916/48			19:32																
CCB 680-275916/49			19:37																
ZZZZZZ			19:43																
ZZZZZZ			19:48																
ZZZZZZ			19:54																
ZZZZZZ			19:59																
ZZZZZZ			20:05																
ZZZZZZ			20:10																
ZZZZZZ			20:16																
ZZZZZZ			20:21																
ZZZZZZ			20:26																
ZZZZZZ			20:32																
CCV 680-275916/60			20:37																
CCB 680-275916/61			20:43																
ZZZZZZ			20:48																
ZZZZZZ			20:54																
ZZZZZZ			20:59																
ZZZZZZ			21:04																
ZZZZZZ			21:10																
ZZZZZZ			21:15																
ZZZZZZ			21:21																
ZZZZZZ			21:26																
ZZZZZZ			21:31																
ZZZZZZ			21:37																
CCV 680-275916/72			21:42																
CCB 680-275916/73			21:48																
ZZZZZZ			21:53																
ZZZZZZ			21:59																
ZZZZZZ			22:04																
ZZZZZZ			22:09																
ZZZZZZ			22:15																
ZZZZZZ			22:20																
ZZZZZZ			22:26																
ZZZZZZ			22:31																
ZZZZZZ			22:37																
ZZZZZZ			22:42																
CCV 680-275916/84	1		22:47	X	X	X	X	X	X	X									

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Instrument ID: ICPE Method: 200.7 Rev 4.4

Start Date: 05/07/2013 14:58 End Date: 05/08/2013 09:48

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
CCB 680-275916/85	1		22:53	X	X	X	X	X	X	X									
MB 680-275602/1-A	1	T	22:58	X	X	X	X	X	X	X									
LCS 680-275602/2-A	1	T	23:04	X	X	X	X	X	X	X									
680-89896-23	1	T	23:09	X	X	X	X	X	X	X									
680-89896-23 SD	5	T	23:14	X	X	X	X	X	X	X									
680-89896-23 PDS	1	T	23:20	X	X	X	X	X	X	X									
ZZZZZZ			23:25																
ZZZZZZ			23:31																
ZZZZZZ			23:36																
ZZZZZZ			23:42																
ZZZZZZ			23:47																
CCV 680-275916/96	1		23:52	X	X	X	X	X	X	X									
CCB 680-275916/97	1		23:58	X	X	X	X	X	X	X									
ZZZZZZ			00:03																
ZZZZZZ			00:09																
ZZZZZZ			00:14																
ZZZZZZ			00:20																
ZZZZZZ			00:25																
ZZZZZZ			00:31																
680-89876-A-10-B MS	1	T	00:36	X	X	X	X	X	X	X									
680-89876-A-10-C MSD	1	T	00:42	X	X	X	X	X	X	X									
ZZZZZZ			00:47																
ZZZZZZ			00:52																
CCV 680-275916/108	1		00:58	X	X	X	X	X	X	X									
CCB 680-275916/109	1		01:03	X	X	X	X	X	X	X									
ZZZZZZ			01:09																
ZZZZZZ			01:14																
ZZZZZZ			01:20																
ZZZZZZ			01:25																
ZZZZZZ			01:30																
ZZZZZZ			01:36																
ZZZZZZ			01:41																
ZZZZZZ			01:47																
ZZZZZZ			01:52																
ZZZZZZ			01:58																
CCV 680-275916/120			02:03																
CCB 680-275916/121			02:09																
ZZZZZZ			02:14																
ZZZZZZ			02:20																
ZZZZZZ			02:25																
ZZZZZZ			02:31																
ZZZZZZ			02:36																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Instrument ID: ICPE Method: 200.7 Rev 4.4

Start Date: 05/07/2013 14:58 End Date: 05/08/2013 09:48

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			02:42																
ZZZZZZ			02:47																
ZZZZZZ			02:53																
ZZZZZZ			02:58																
ZZZZZZ			03:03																
CCV 680-275916/132			03:09																
CCB 680-275916/133			03:14																
ZZZZZZ			03:20																
ZZZZZZ			03:25																
ZZZZZZ			03:31																
ZZZZZZ			03:36																
ZZZZZZ			03:41																
ZZZZZZ			03:47																
ZZZZZZ			03:52																
ZZZZZZ			03:58																
ZZZZZZ			04:03																
ZZZZZZ			04:09																
CCV 680-275916/144	1		04:14	X	X	X	X	X	X	X									
CCB 680-275916/145	1		04:20	X	X	X	X	X	X	X									
ZZZZZZ			04:25																
ZZZZZZ			04:30																
ZZZZZZ			04:36																
ZZZZZZ			04:41																
ZZZZZZ			04:47																
ZZZZZZ			04:52																
ZZZZZZ			04:58																
ZZZZZZ			05:03																
ZZZZZZ			05:09																
MB 680-275575/1-A	1	T	05:14	X	X	X	X	X	X	X									
CCV 680-275916/156	1		05:20	X	X	X	X	X	X	X									
CCB 680-275916/157	1		05:25	X	X	X	X	X	X	X									
LCS 680-275575/2-A	1	T	05:30	X	X	X	X	X	X	X									
680-89896-4	1	T	05:36	X	X	X	X	X	X	X									
680-89896-4 SD	5	T	05:41	X	X	X	X	X	X	X									
680-89896-4 PDS	1	T	05:47	X	X	X	X	X	X	X									
680-89896-4 MS	1	T	05:52	X	X	X	X	X	X	X									
680-89896-4 MSD	1	T	05:58	X	X	X	X	X	X	X									
680-89896-6	1	T	06:03	X	X	X	X	X	X	X									
680-89896-18	1	T	06:09	X	X	X	X	X	X	X									
680-89896-20	1	T	06:14	X	X	X	X	X	X	X									
680-89896-21	1	T	06:19	X	X	X	X	X	X	X									
CCV 680-275916/168	1		06:25	X	X	X	X	X	X	X									

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Instrument ID: ICPE Method: 200.7 Rev 4.4

Start Date: 05/07/2013 14:58 End Date: 05/08/2013 09:48

Lab Sample ID	D / F	Type	Time	Analytes																								
				A g	A s	B a	C d	C r	P b	S e																		
CCB 680-275916/169	1		06:30	X	X	X	X	X	X	X																		
680-89896-22	1	T	06:36	X	X	X	X	X	X	X																		
ZZZZZZ			06:41																									
ZZZZZZ			06:47																									
ZZZZZZ			06:52																									
ZZZZZZ			06:58																									
ZZZZZZ			07:03																									
ZZZZZZ			07:09																									
ZZZZZZ			07:14																									
ZZZZZZ			07:19																									
ZZZZZZ			07:25																									
CCV 680-275916/180	1		07:30	X	X	X	X	X	X	X																		
CCB 680-275916/181	1		07:36	X	X	X	X	X	X	X																		
ZZZZZZ			07:41																									
ZZZZZZ			07:47																									
ZZZZZZ			07:52																									
ZZZZZZ			07:58																									
ZZZZZZ			08:03																									
ZZZZZZ			08:08																									
ZZZZZZ			08:14																									
ZZZZZZ			08:19																									
ZZZZZZ			08:25																									
ZZZZZZ			08:30																									
CCV 680-275916/192			08:36																									
CCB 680-275916/193			08:41																									
ZZZZZZ			08:47																									
ZZZZZZ			08:52																									
ZZZZZZ			08:58																									
ZZZZZZ			09:03																									
ZZZZZZ			09:09																									
ZZZZZZ			09:14																									
ZZZZZZ			09:20																									
ZZZZZZ			09:25																									
ZZZZZZ			09:31																									
ZZZZZZ			09:38																									
CCV 680-275916/204			09:43																									
CCB 680-275916/205			09:48																									

Prep Types  
T = Total/NA

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Instrument ID: LEEMAN2 Method: 245.1

Start Date: 05/08/2013 12:09 End Date: 05/09/2013 09:58

Lab Sample ID	D / F	Type	Time	Analytes															
				Hg															
IC 680-275755/13-A			12:09	X															
IC 680-275755/14-A			12:12	X															
IC 680-275755/15-A			12:14	X															
IC 680-275755/16-A			12:17	X															
IC 680-275755/17-A			12:19	X															
IC 680-275755/18-A			12:22	X															
ICV 680-275755/23-A	1		12:24	X															
ICB 680-275755/24-A	1		12:26	X															
CRA 680-275755/25-A	1		12:29	X															
CCV 680-275755/20-A			12:31																
CCB 680-275755/21-A			12:34																
ZZZZZZ			12:36																
ZZZZZZ			12:39																
ZZZZZZ			12:41																
ZZZZZZ			12:44																
ZZZZZZ			12:46																
ZZZZZZ			12:48																
ZZZZZZ			12:51																
ZZZZZZ			12:53																
ZZZZZZ			12:56																
ZZZZZZ			12:58																
CCV 680-275755/20-A			13:01																
CCB 680-275755/21-A			13:03																
ZZZZZZ			13:06																
ZZZZZZ			13:08																
ZZZZZZ			13:11																
ZZZZZZ			13:13																
ZZZZZZ			13:15																
ZZZZZZ			13:18																
ZZZZZZ			13:20																
ZZZZZZ			13:23																
ZZZZZZ			13:25																
ZZZZZZ			13:28																
CCV 680-275755/20-A			13:30																
CCB 680-275755/21-A			13:33																
ZZZZZZ			13:35																
ZZZZZZ			13:38																
ZZZZZZ			13:40																
ZZZZZZ			13:43																
ZZZZZZ			13:45																
ZZZZZZ			13:47																
ZZZZZZ			13:50																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Instrument ID: LEEMAN2 Method: 245.1

Start Date: 05/08/2013 12:09 End Date: 05/09/2013 09:58

Lab Sample ID	D / F	Type	Time	Analytes															
				H	g														
ZZZZZZ			13:52																
ZZZZZZ			13:55																
ZZZZZZ			13:57																
CCV 680-275755/20-A			14:00																
CCB 680-275755/21-A			14:02																
ZZZZZZ			14:05																
ZZZZZZ			14:07																
ZZZZZZ			14:10																
ZZZZZZ			14:12																
ZZZZZZ			14:15																
ZZZZZZ			14:17																
ZZZZZZ			14:19																
ZZZZZZ			14:22																
ZZZZZZ			14:24																
ZZZZZZ			14:27																
CCV 680-275755/20-A			14:29																
CCB 680-275755/21-A			14:32																
ZZZZZZ			14:34																
ZZZZZZ			14:37																
ZZZZZZ			14:39																
ZZZZZZ			14:42																
ZZZZZZ			14:44																
ZZZZZZ			14:47																
ZZZZZZ			14:49																
ZZZZZZ			14:51																
ZZZZZZ			14:54																
ZZZZZZ			14:56																
CCV 680-275755/20-A			14:59																
CCB 680-275755/21-A			15:01																
ZZZZZZ			15:04																
ZZZZZZ			15:06																
CCV 680-275755/20-A			15:09																
CCB 680-275755/21-A			15:11																
CCV 680-275755/20-A			15:54																
CCB 680-275755/21-A			15:56																
ZZZZZZ			15:59																
ZZZZZZ			16:01																
ZZZZZZ			16:03																
ZZZZZZ			16:06																
ZZZZZZ			16:08																
ZZZZZZ			16:11																
ZZZZZZ			16:13																





13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Instrument ID: LEEMAN2 Method: 245.1

Start Date: 05/08/2013 12:09 End Date: 05/09/2013 09:58

Lab Sample ID	D / F	T y p e	Time	Analytes																
				H g																
ZZZZZZ			17:59																	
ZZZZZZ			18:02																	
ZZZZZZ			18:04																	
ZZZZZZ			18:07																	
ZZZZZZ			18:09																	
ZZZZZZ			18:12																	
ZZZZZZ			18:14																	
ZZZZZZ			18:17																	
ZZZZZZ			18:19																	
CCV 680-275755/20-A			18:22																	
CCB 680-275755/21-A			18:24																	
ZZZZZZ			18:27																	
ZZZZZZ			18:29																	
ZZZZZZ			18:32																	
ZZZZZZ			18:34																	
ZZZZZZ			18:37																	
ZZZZZZ			18:39																	
ZZZZZZ			18:42																	
ZZZZZZ			18:44																	
CCV 680-275755/20-A			18:47																	
CCB 680-275755/21-A			18:49																	
CCV 680-275755/20-A			09:43																	
CCB 680-275755/21-A			09:46																	
ZZZZZZ			09:48																	
ZZZZZZ			09:51																	
ZZZZZZ			09:53																	
CCV 680-275755/20-A			09:56																	
CCB 680-275755/21-A			09:58																	

Prep Types  
T = Total/NA

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 05/10/2013 09:53 End Date: 05/10/2013 13:47

Lab Sample ID	D / F	Type	Time	Analytes															
				Hg															
ZZZZZZ			09:53																
ZZZZZZ			09:56																
ZZZZZZ			09:58																
ZZZZZZ			10:01																
ZZZZZZ			10:05																
ZZZZZZ			10:07																
ZZZZZZ			10:10																
ZZZZZZ			10:12																
IC 680-275956/30-A			10:29	X															
IC 680-275956/31-A			10:31	X															
IC 680-275956/32-A			10:34	X															
IC 680-275956/33-A			10:36	X															
IC 680-275956/34-A			10:39	X															
IC 680-275956/35-A			10:41	X															
ICV 680-275956/40-A	1		10:44	X															
ICB 680-275956/41-A	1		10:46	X															
CRA 680-275956/42-A	1		10:49	X															
CCV 680-275956/37-A			10:51																
CCB 680-275956/38-A			10:54																
ZZZZZZ			10:56																
ZZZZZZ			10:58																
ZZZZZZ			11:01																
ZZZZZZ			11:03																
ZZZZZZ			11:06																
ZZZZZZ			11:08																
ZZZZZZ			11:11																
ZZZZZZ			11:13																
ZZZZZZ			11:16																
ZZZZZZ			11:18																
CCV 680-275956/37-A			11:21																
CCB 680-275956/38-A			11:23																
ZZZZZZ			11:25																
ZZZZZZ			11:28																
ZZZZZZ			11:30																
ZZZZZZ			11:33																
ZZZZZZ			11:35																
ZZZZZZ			11:38																
ZZZZZZ			11:40																
ZZZZZZ			11:43																
ZZZZZZ			11:45																
ZZZZZZ			11:48																
CCV 680-275956/37-A	1		11:50	X															

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2  
SDG No.: 68089896-2  
Instrument ID: LEEMAN2 Method: 7471B  
Start Date: 05/10/2013 09:53 End Date: 05/10/2013 13:47

Lab Sample ID	D / F	Type	Time	Analytes															
				Hg															
CCB 680-275956/38-A	1		11:52	X															
ZZZZZZ			11:55																
ZZZZZZ			11:57																
ZZZZZZ			12:00																
ZZZZZZ			12:02																
MB 680-275956/1-A	1	T	12:05	X															
LCS 680-275956/2-A	1	T	12:07	X															
ZZZZZZ			12:10																
ZZZZZZ			12:12																
ZZZZZZ			12:15																
ZZZZZZ			12:17																
CCV 680-275956/37-A	1		12:19	X															
CCB 680-275956/38-A	1		12:22	X															
ZZZZZZ			12:24																
ZZZZZZ			12:27																
ZZZZZZ			12:29																
ZZZZZZ			12:32																
ZZZZZZ			12:34																
ZZZZZZ			12:37																
ZZZZZZ			12:39																
ZZZZZZ			12:42																
ZZZZZZ			12:44																
680-89896-4	1	T	12:46	X															
CCV 680-275956/37-A	1		12:49	X															
CCB 680-275956/38-A	1		12:51	X															
680-89896-4 MS	1	T	12:54	X															
680-89896-4 MSD	1	T	12:56	X															
680-89896-6	1	T	12:59	X															
680-89896-18	1	T	13:01	X															
680-89896-20	1	T	13:04	X															
680-89896-21	1	T	13:06	X															
680-89896-22	1	T	13:09	X															
ZZZZZZ			13:11																
ZZZZZZ			13:14																
ZZZZZZ			13:16																
CCV 680-275956/37-A	1		13:19	X															
CCB 680-275956/38-A	1		13:21	X															
ZZZZZZ			13:23																
ZZZZZZ			13:26																
ZZZZZZ			13:28																
CCV 680-275956/37-A			13:31																
CCB 680-275956/38-A			13:33																

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 05/10/2013 09:53 End Date: 05/10/2013 13:47

Lab Sample ID	D / F	T y p e	Time	Analytes																
				H g																
ZZZZZZ			13:43																	
CCV 680-275956/37-A			13:45																	
CCB 680-275956/38-A			13:47																	

Prep Types  
T = Total/NA

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Blank (Blk)	5/7/2013, 2:58:56 PM		Rack S, Tube 1
Label	Replicates Concentration		
Ag 328.068	-0.1058	-0.1465	0.2523
Al 308.215	-0.8086	-0.6837	1.4923
As 188.980	3.6287	3.7220	-7.3507
B 249.678	0.0880	-0.3584	0.2704
Ba 389.178	0.1197	-0.3443	0.2246
Be 313.042	-0.0063	0.0076	-0.0013
Ca 370.602	1.456	-0.1744	-1.282
Cd 226.502	-0.0213	0.0452	-0.0238
Co 228.615	0.1131	-0.2486	0.1355
Cr 267.716	-0.0866	-0.0232	0.1098
Cu 324.754	0.2211	-0.0999	-0.1212
Fe 271.441	-0.8475	-0.2620	1.1096
K 766.491	-0.4692	-0.1102	0.5794
Mg 279.078	0.2953	-2.4996	2.2043
Mn 257.610	-0.0901	0.0415	0.0487
Mo 202.032	-0.2574	0.4278	-0.1704
Na 330.237	-154.926	-81.7549	236.681
Ni 231.604	0.4567	-0.4383	-0.0184
Pb 220.353	-1.7184	-0.3062	2.0246
Sb 206.834	0.2037	-0.2038	0.0001
Se 196.026	-2.4189	5.7835	-3.3646
Sn 189.925	-0.9715	3.9011	-2.9296
Sr 216.596	0.0796	-0.0623	-0.0173
Ti 334.941	-0.0112	-0.0096	0.0208
Tl 190.794	1.0507	0.5408	-1.5915
V 292.401	-0.0241	0.0063	0.0178
Zn 206.200	0.4692	-0.1253	-0.3439

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	17.749	84.5	-21.0024
Al 308.215	0.0000	ppb	6.004	8.3	72.3114
As 188.980	0.0000	ppb	3.050	45.3	-6.7275
B 249.678	0.0000	ppb	4.376	3.0	147.116
Ba 389.178	0.0000	ppb	7.034	127.0	5.5404
Be 313.042	0.0000	ppb	13.340	3.5	-377.028
Ca 370.602	0.0000	ppb	4.426	57.9	7.644
Cd 226.502	0.0000	ppb	1.622	4.4	37.2739
Co 228.615	0.0000	ppb	2.914	38.8	7.5017
Cr 267.716	0.0000	ppb	5.296	30.3	17.4780
Cu 324.754	0.0000	ppb	9.048	3.4	263.156
Fe 271.441	0.0000	ppb	1.874	1.7	107.745
K 766.491	0.0000	ppb	20.539	5.5	370.577
Mg 279.078	0.0000	ppb	5.513	14.1	39.1660
Mn 257.610	0.0000	ppb	20.891	28.3	73.8366
Mo 202.032	0.0000	ppb	3.050	18.1	16.8791
Na 330.237	0.0000	ppb	11.356	16.5	68.9618
Ni 231.604	0.0000	ppb	1.389	23.8	-5.8426
Pb 220.353	0.0000	ppb	3.930	12.4	31.6408
Sb 206.834	0.0000	ppb	0.251	6.9	3.6280
Se 196.026	0.0000	ppb	2.783	23.7	11.7626
Sn 189.925	0.0000	ppb	3.570	28.6	-12.4840
Sr 216.596	0.0000	ppb	0.933	4.6	20.2916
Ti 334.941	0.0000	ppb	5.538	13.3	-41.7360
Tl 190.794	0.0000	ppb	1.557	9.9	-15.6866
V 292.401	0.0000	ppb	0.635	7.3	-8.6456
Zn 206.200	0.0000	ppb	0.686	75.4	-0.9099

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

HIGH STD (Std)	5/7/2013, 3:04:20 PM		Rack S, Tube 2
Label	Replicates Concentration		
Ag 328.068	994.146	997.344	1008.51
Al 308.215	10021.4	9974.25	10004.3
As 188.980	1017.64	981.895	1000.46
B 249.678	995.409	994.948	1009.64
Ba 389.178	10013.8	9963.12	10023.0
Be 313.042	1001.53	995.880	1002.59
Ca 370.602	10009	9959	10033
Cd 226.502	1002.66	994.603	1002.73
Co 228.615	1000.48	995.795	1003.72
Cr 267.716	10017.1	9952.41	10030.5
Cu 324.754	10040.7	9997.88	9961.38
Fe 271.441	10010.8	9952.16	10037.1
K 766.491	20046.0	19958.6	19995.4
Mg 279.078	10022.2	9954.82	10022.9
Mn 257.610	9978.14	10001.6	10020.2
Mo 202.032	1001.84	996.048	1002.11
Na 330.237	15090.6	14978.9	14930.5
Ni 231.604	5003.64	4977.61	5018.75
Pb 220.353	1004.66	992.208	1003.13
Sb 206.834	1998.22	1990.09	2011.69
Se 196.026	10002.3	9970.54	10027.2
Sn 189.925	9976.53	9937.65	10085.8
Sr 216.596	5008.55	4976.82	5014.64
Ti 334.941	1001.18	996.013	1002.81
Tl 190.794	10005.8	9959.97	10034.2
V 292.401	10016.1	9954.57	10029.3
Zn 206.200	5002.31	4980.24	5017.45

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	609.975	0.8	80856.8
Al 308.215	10000.0	ppb	110.789	0.2	46473.8
As 188.980	1000.00	ppb	8.566	1.8	472.407
B 249.678	1000.00	ppb	112.991	0.8	13671.9
Ba 389.178	10000.0	ppb	749.636	0.3	232342
Be 313.042	1000.00	ppb	6849.961	0.4	1898665
Ca 370.602	10000	ppb	121.483	0.4	32138
Cd 226.502	1000.00	ppb	193.767	0.5	41496.4
Co 228.615	1000.00	ppb	53.872	0.4	13522.3
Cr 267.716	10000.0	ppb	2206.102	0.4	528303
Cu 324.754	10000.0	ppb	1874.014	0.4	472073
Fe 271.441	10000.0	ppb	81.087	0.4	18763.1
K 766.491	20000.0	ppb	1690.130	0.2	771163
Mg 279.078	10000.0	ppb	91.168	0.4	23340.6
Mn 257.610	10000.0	ppb	5638.704	0.2	2673423
Mo 202.032	1000.00	ppb	28.004	0.3	8191.79
Na 330.237	15000.0	ppb	4.477	0.5	887.053
Ni 231.604	5000.00	ppb	64.571	0.4	15509.4
Pb 220.353	1000.00	ppb	14.121	0.7	2110.86
Sb 206.834	2000.00	ppb	13.466	0.5	2472.63
Se 196.026	10000.0	ppb	15.707	0.3	5542.79
Sn 189.925	10000.0	ppb	77.955	0.8	10135.6
Sr 216.596	5000.00	ppb	261.178	0.4	64329.1
Ti 334.941	1000.00	ppb	1090.181	0.4	307277
Tl 190.794	10000.0	ppb	41.598	0.4	11090.0
V 292.401	10000.0	ppb	1169.293	0.4	293043
Zn 206.200	5000.00	ppb	30.504	0.4	8150.49

**Ag 328.068 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-21.0024	0.0000	0.0000	-	-
HIGH STD		80856.8	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 80.9 x + -21.0$

**Al 308.215 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		72.3114	0.0000	0.0000	-	-
HIGH STD		46473.8	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation:  $y = 4.6 x + 72.3$

**As 188.980 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-6.7275	0.0000	0.0000	-	-
HIGH STD		472.407	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.5 x + -6.7$

**B 249.678 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		147.116	0.0000	0.0000	-	-
HIGH STD		13671.9	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 13.5 x + 147.1$

**Ba 389.178 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		5.5404	0.0000	0.0000	-	-
HIGH STD		232342	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 23.2 x + 5.5$

**Be 313.042 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-377.028	0.0000	0.0000	-	-
HIGH STD		1898665	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 1899.0 x + -377.0$

**Ca 370.602 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		7.644	0.0000	0.0000	-	-
HIGH STD		32138	10000	10000	0.0010	0.0

Curve Type: Linear Equation:  $y = 3.2 x + 7.6$

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**Cd 226.502 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		37.2739	0.0000	0.0000	-	-
HIGH STD		41496.4	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 41.5 x + 37.3$ **Co 228.615 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		7.5017	0.0000	0.0000	-	-
HIGH STD		13522.3	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 13.5 x + 7.5$ **Cr 267.716 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		17.4780	0.0000	0.0000	-	-
HIGH STD		528303	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 52.8 x + 17.5$ **Cu 324.754 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		263.156	0.0000	0.0000	-	-
HIGH STD		472073	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 47.2 x + 263.2$ **Fe 271.441 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		107.745	0.0000	0.0000	-	-
HIGH STD		18763.1	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 1.9 x + 107.7$ **K 766.491 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		370.577	0.0000	0.0000	-	-
HIGH STD		771163	20000.0	20000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 38.5 x + 370.6$ **Mg 279.078 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		39.1660	0.0000	0.0000	-	-
HIGH STD		23340.6	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation:  $y = 2.3 x + 39.2$



E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**Mn 257.610 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		73.8366	0.0000	0.0000	-	-
HIGH STD		2673423	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation:  $y = 267.3 x + 73.8$ **Mo 202.032 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		16.8791	0.0000	0.0000	-	-
HIGH STD		8191.79	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation:  $y = 8.2 x + 16.9$ **Na 330.237 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		68.9618	0.0000	0.0000	-	-
HIGH STD		887.053	15000.0	15000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 0.1 x + 69.0$ **Ni 231.604 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-5.8426	0.0000	0.0000	-	-
HIGH STD		15509.4	5000.00	5000.00	0.0005	0.0

Curve Type: Linear Equation:  $y = 3.1 x + -5.8$ **Pb 220.353 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		31.6408	0.0000	0.0000	-	-
HIGH STD		2110.86	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 2.1 x + 31.6$ **Sb 206.834 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		3.6280	0.0000	0.0000	-	-
HIGH STD		2472.63	2000.00	2000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 1.2 x + 3.6$ **Se 196.026 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		11.7626	0.0000	0.0000	-	-
HIGH STD		5542.79	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation:  $y = 0.6 x + 11.8$

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**Sn 189.925 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-12.4840	0.0000	0.0000	-	-
HIGH STD		10135.6	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation:  $y = 1.0 x + -12.5$ **Sr 216.596 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		20.2916	0.0000	0.0000	-	-
HIGH STD		64329.1	5000.00	5000.00	0.0005	0.0

Curve Type: Linear Equation:  $y = 12.9 x + 20.3$ **Ti 334.941 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-41.7360	0.0000	0.0000	-	-
HIGH STD		307277	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation:  $y = 307.3 x + -41.7$ **Tl 190.794 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-15.6866	0.0000	0.0000	-	-
HIGH STD		11090.0	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation:  $y = 1.1 x + -15.7$ **V 292.401 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-8.6456	0.0000	0.0000	-	-
HIGH STD		293043	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation:  $y = 29.3 x + -8.6$ **Zn 206.200 Calibration (ppb) 5/7/2013, 3:04:20 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.9099	0.0000	0.0000	-	-
HIGH STD		8150.49	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation:  $y = 1.6 x + -0.9$ **Lab Control Sample (LCS) 5/7/2013, 3:09:44 PM Rack S, Tube 2****Weight: 1 Volume: 1 Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	991.044	1002.80	1005.08
Al 308.215	9991.16	10013.0	10035.2
As 188.980	1008.07	993.268	990.706
B 249.678	1014.00	1022.98	1021.08
Ba 389.178	9973.99	10008.8	10001.7

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Label	Replicates Concentration		
Be 313.042	998.000	1003.65	1001.96
Ca 370.602	9943	9970	9973
Cd 226.502	1001.35	1003.93	1002.46
Co 228.615	1000.83	1002.49	1000.33
Cr 267.716	9995.91	10020.5	9989.69
Cu 324.754	9862.00	9936.87	9974.76
Fe 271.441	10005.4	10027.2	10017.7
K 766.491	20025.7	19941.1	19889.4
Mg 279.078	9967.31	10013.9	9984.73
Mn 257.610	9998.16	10058.3	10037.1
Mo 202.032	1001.39	1004.53	1002.62
Na 330.237	14429.9	14792.3	14828.7
Ni 231.604	5015.79	5024.73	5012.37
Pb 220.353	997.709	1005.51	1003.18
Sb 206.834	2002.49	2006.20	1993.18
Se 196.026	10025.4	10046.5	10016.4
Sn 189.925	9946.04	10089.1	10017.2
Sr 216.596	5004.86	5012.65	4995.85
Ti 334.941	997.089	1001.36	999.972
Tl 190.794	10025.0	10007.3	10012.0
V 292.401	9994.89	10009.8	9997.06
Zn 206.200	4995.74	5021.88	5010.77

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	999.640	ppb	7.5307	0.8	80700.1	99.96400
Al 308.215	10013.1	ppb	22.0448	0.2	46497.8	100.13128
As 188.980	997.347	ppb	9.3711	0.9	470.915	99.73466
B 249.678	1019.35	ppb	4.7343	0.5	13920.0	20.38709*
Ba 389.178	9994.85	ppb	18.4164	0.2	232290	99.94849
Be 313.042	1001.20	ppb	2.9014	0.3	1900427	100.12037
Ca 370.602	9962	ppb	16.43	0.2	31752	99.62075
Cd 226.502	1002.58	ppb	1.2946	0.1	41641.0	100.25761
Co 228.615	1001.22	ppb	1.1261	0.1	13559.2	100.12173
Cr 267.716	10002.0	ppb	16.2935	0.2	528346	100.02031
Cu 324.754	9924.54	ppb	57.3788	0.6	468448	99.24543
Fe 271.441	10016.8	ppb	10.9076	0.1	19065.3	100.16772
K 766.491	19952.1	ppb	68.7823	0.3	769316	99.76030
Mg 279.078	9988.65	ppb	23.5370	0.2	23135.3	99.88647
Mn 257.610	10031.2	ppb	30.4989	0.3	2681885	100.31180
Mo 202.032	1002.84	ppb	1.5861	0.2	8193.23	100.28448
Na 330.237	14683.6	ppb	220.515	1.5	818.358	97.89088
Ni 231.604	5017.63	ppb	6.3802	0.1	15564.4	100.35255
Pb 220.353	1002.13	ppb	4.0054	0.4	2115.48	100.21346
Sb 206.834	2000.62	ppb	6.7102	0.3	2590.12	40.01245*
Se 196.026	10029.4	ppb	15.4959	0.2	5561.90	100.29426
Sn 189.925	10017.5	ppb	71.5506	0.7	10153.3	100.17470
Sr 216.596	5004.45	ppb	8.4043	0.2	64248.9	100.08907
Ti 334.941	999.474	ppb	2.1792	0.2	307165	99.94743
Tl 190.794	10014.8	ppb	9.1563	0.1	11095.1	100.14768
V 292.401	10000.6	ppb	8.0642	0.1	292211	100.00588
Zn 206.200	5009.46	ppb	13.1173	0.3	8135.10	100.18923

Initial Calib Verif (ICV)

5/7/2013, 3:15:08 PM

Rack S, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	993.110	999.965	970.641
Al 308.215	957.840	963.234	943.849

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Label	Replicates Concentration		
As 188.980	991.264	992.774	974.766
B 249.678	1004.01	1014.33	995.174
Ba 389.178	1044.50	1047.15	1028.36
Be 313.042	1055.40x	1060.19x	1042.02x
Ca 370.602	1015	1014	992.7
Cd 226.502	1060.11x	1061.66x	1042.71x
Co 228.615	1022.26	1026.17	1002.17
Cr 267.716	1038.51	1040.70	1021.42
Cu 324.754	1038.07	1046.62	1025.15
Fe 271.441	987.124	993.810	972.012
K 766.491	10186.6	10190.8	10004.6
Mg 279.078	1017.74	1024.42	1002.50
Mn 257.610	1082.11	1085.90	1066.01
Mo 202.032	1021.48x	1025.53x	1004.80x
Na 330.237	9637.58	9474.87	9347.79
Ni 231.604	1050.57	1055.37	1031.10
Pb 220.353	1028.09	1026.56	1003.67
Sb 206.834	1002.51	1006.56	985.842
Se 196.026	999.328	1003.79	972.171
Sn 189.925	5035.38	5052.14	4972.48
Sr 216.596	4992.48	5002.38	4908.42
Ti 334.941	991.956	997.169	978.827
Tl 190.794	1029.54	1041.38	1018.83
V 292.401	1010.75	1013.93	996.793
Zn 206.200	1050.30	1049.36	1034.46

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	987.905b	ppb	15.3392	1.6	79649.9	98.79050
Al 308.215	954.974b	ppb	10.0054	1.0	4597.73	95.49744
As 188.980	986.268b	ppb	9.9894	1.0	465.616	98.62680
B 249.678	1004.51b	ppb	9.5894	1.0	13731.4	100.45057
Ba 389.178	1040.00b	ppb	10.1689	1.0	24180.1	104.00038
Be 313.042	1052.54xb	ppb	9.4180	0.9	1998236	105.25360
Ca 370.602	1007b	ppb	12.56	1.2	3381	100.71780
Cd 226.502	1054.83xb	ppb	10.5229	1.0	43773.5	105.48275Q
Co 228.615	1016.87b	ppb	12.8779	1.3	13740.3	101.68665
Cr 267.716	1033.54b	ppb	10.5560	1.0	54604.0	103.35433
Cu 324.754	1036.61b	ppb	10.8128	1.0	49188.8	103.66117
Fe 271.441	984.315b	ppb	11.1669	1.1	2126.93	98.43154
K 766.491	10127.3b	ppb	106.315	1.0	390674	101.27327
Mg 279.078	1014.88b	ppb	11.2339	1.1	2384.80	101.48836
Mn 257.610	1078.00b	ppb	10.5624	1.0	288275	107.80046Q
Mo 202.032	1017.27xb	ppb	10.9873	1.1	8330.80	101.72710
Na 330.237	9486.75b	ppb	145.257	1.5	569.573	94.86745
Ni 231.604	1045.68b	ppb	12.8557	1.2	3238.98	104.56793
Pb 220.353	1019.44b	ppb	13.6819	1.3	2148.81	101.94398
Sb 206.834	998.305b	ppb	10.9816	1.1	1242.98	99.83047
Se 196.026	991.763b	ppb	17.1135	1.7	560.614	99.17632
Sn 189.925	5020.00b	ppb	41.9950	0.8	5081.84	100.39998
Sr 216.596	4967.76b	ppb	51.6305	1.0	63850.1	99.35519
Ti 334.941	989.318b	ppb	9.4515	1.0	303998	98.93176
Tl 190.794	1029.91b	ppb	11.2810	1.1	1126.95	102.99149
V 292.401	1007.16b	ppb	9.1164	0.9	29242.7	100.71588
Zn 206.200	1044.71b	ppb	8.8868	0.9	1699.07	104.47066

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Initial Calib Blank (ICB) 5/7/2013, 3:20:44 PM Rack S, Tube 1

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0175u	-0.2289u	-0.2116u
Al 308.215	-2.2261u	-0.8858u	-1.5202u
As 188.980	5.4098	-0.1922u	0.9881
B 249.678	28.0124	24.3706	22.9765
Ba 389.178	-0.6242u	-0.3802u	0.3389
Be 313.042	-0.0055u	-0.0051u	-0.0005u
Ca 370.602	-5.537u	-2.302u	-5.766u
Cd 226.502	-0.0227u	-0.1182u	-0.0331u
Co 228.615	0.1780	0.7018	0.1758
Cr 267.716	-0.1294u	-0.2062u	-0.2609u
Cu 324.754	0.7726	-0.6502u	-0.1163u
Fe 271.441	-3.2880u	6.6256	-2.8885u
K 766.491	-2.2106u	-2.0591u	-1.7837u
Mg 279.078	-2.7195u	2.0630	-2.8625u
Mn 257.610	-0.1578u	-0.1543u	-0.0799u
Mo 202.032	0.1896	-0.0697u	0.3175
Na 330.237	-178.637u	-92.7194u	32.6730
Ni 231.604	0.0741	-0.6132u	-0.2568u
Pb 220.353	-0.7367u	0.4921	1.7821
Sb 206.834	0.9383	2.4343	3.1237
Se 196.026	-1.2424u	-0.4931u	2.8334
Sn 189.925	-0.1803u	-0.4752u	2.1174
Sr 216.596	-0.3647u	-0.3019u	-0.1638u
Ti 334.941	0.0938	0.0590	0.1721
Tl 190.794	0.8166	3.4628	2.2896
V 292.401	-0.5234u	0.2427	0.2673
Zn 206.200	0.1540	1.4229	0.7232

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1527	ppb	0.1174	76.9	-33.3397	-0.15267
Al 308.215	-1.5440	ppb	0.6705	43.4	65.1535	-1.54402
As 188.980	2.0686	ppb	2.9532	142.8	-5.7364	2.06860
B 249.678	25.1198	ppb	2.6002	10.4	486.856	25.11982
Ba 389.178	-0.2218	ppb	0.5007	225.7	0.3822	-0.22181
Be 313.042	-0.0037	ppb	0.0028	74.8	-384.095	-0.00372
Ca 370.602	-4.535	ppb	1.937	42.7	-6.847	-4.53508
Cd 226.502	-0.0580	ppb	0.0524	90.3	34.8667	-0.05800
Co 228.615	0.3519	ppb	0.3030	86.1	12.2566	0.35187
Cr 267.716	-0.1988	ppb	0.0661	33.2	6.9734	-0.19882
Cu 324.754	0.0020	ppb	0.7187	35082.1	263.254	0.00205
Fe 271.441	0.1497	ppb	5.6119	3748.6	108.082	0.14970
K 766.491	-2.0178	ppb	0.2164	10.7	292.811	-2.01782
Mg 279.078	-1.1730	ppb	2.8034	239.0	36.4348	-1.17304
Mn 257.610	-0.1307	ppb	0.0440	33.7	38.8842	-0.13068
Mo 202.032	0.1458	ppb	0.1973	135.3	18.0709	0.14579
Na 330.237	-79.5611	ppb	106.268	133.6	64.6160	-79.56110
Ni 231.604	-0.2653	ppb	0.3437	129.6	-6.6659	-0.26532
Pb 220.353	0.5125	ppb	1.2595	245.8	32.7061	0.51251
Sb 206.834	2.1654	ppb	1.1172	51.6	6.2977	2.16544
Se 196.026	0.3660	ppb	2.1695	592.8	11.9649	0.36598
Sn 189.925	0.4873	ppb	1.4194	291.3	-11.9895	0.48731
Sr 216.596	-0.2768	ppb	0.1028	37.1	16.7257	-0.27681
Ti 334.941	0.1083	ppb	0.0579	53.5	-8.4545	0.10830
Tl 190.794	2.1896	ppb	1.3259	60.6	-13.2545	2.18964
V 292.401	-0.0045	ppb	0.4496	10047.4	-8.7743	-0.00447
Zn 206.200	0.7667	ppb	0.6356	82.9	30.3406	0.76672

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**CRI (CRI)** **5/7/2013, 3:26:09 PM** **Rack S, Tube 4**  
**Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.9639	9.7800	9.6228
Al 308.215	198.057	198.093	192.682
As 188.980	21.5285	25.0982	28.0642
B 249.678	107.053	106.460	105.842
Ba 389.178	9.9837	9.8889	10.0244
Be 313.042	4.1937	4.1913	4.1735
Ca 370.602	491.3	491.9	484.6
Cd 226.502	5.2820	5.0854	5.1628
Co 228.615	10.8147	11.0447	10.7301
Cr 267.716	10.4076	10.4456	9.8894
Cu 324.754	20.6129	20.8991	20.5148
Fe 271.441	45.1453	40.8078	45.1426
K 766.491	998.596	1002.34	992.043
Mg 279.078	502.947	503.379	497.863
Mn 257.610	10.9203	10.8977	10.8136
Mo 202.032	9.6127	9.8352	9.9634
Na 330.237	914.536	804.721	773.550
Ni 231.604	42.3626	41.5430	40.2332
Pb 220.353	9.9495	10.9220	9.9897
Sb 206.834	21.0881	16.6845	18.0212
Se 196.026	19.6102	18.0729	16.1328
Sn 189.925	50.5394	50.4710	53.2708
Sr 216.596	9.9045	10.3412	9.8577
Ti 334.941	9.9258	9.9435	9.8311
Tl 190.794	24.8911	23.6431	25.4285
V 292.401	9.8734	10.0695	9.9960
Zn 206.200	21.6532	23.0901	20.7206

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	9.7889	ppb	0.1707	1.7	770.345	97.88890
Al 308.215	196.278	ppb	3.1136	1.6	983.952	98.13876
As 188.980	24.8969	ppb	3.2725	13.1	5.2024	124.48472R
B 249.678	106.452	ppb	0.6055	0.6	1586.79	106.45152
Ba 389.178	9.9657	ppb	0.0695	0.7	238.531	99.65702
Be 313.042	4.1862	ppb	0.0110	0.3	7570.89	104.65492
Ca 370.602	489.3	ppb	4.055	0.8	1578	97.85833
Cd 226.502	5.1768	ppb	0.0990	1.9	252.069	103.53510
Co 228.615	10.8632	ppb	0.1628	1.5	154.236	108.63171
Cr 267.716	10.2475	ppb	0.3107	3.0	558.783	102.47548
Cu 324.754	20.6756	ppb	0.1997	1.0	1238.82	103.37794
Fe 271.441	43.6986	ppb	2.5034	5.7	191.211	87.39716
K 766.491	997.661	ppb	5.2135	0.5	38820.1	99.76610
Mg 279.078	501.397	ppb	3.0676	0.6	1207.25	100.27934
Mn 257.610	10.8772	ppb	0.0562	0.5	2986.58	108.77230
Mo 202.032	9.8038	ppb	0.1774	1.8	97.0004	98.03768
Na 330.237	830.935	ppb	74.0584	8.9	114.011	83.09354
Ni 231.604	41.3796	ppb	1.0741	2.6	122.562	103.44899
Pb 220.353	10.2871	ppb	0.5502	5.3	53.0102	102.87090
Sb 206.834	18.5979	ppb	2.2577	12.1	26.6046	92.98951
Se 196.026	17.9386	ppb	1.7426	9.7	21.6878	89.69308
Sn 189.925	51.4271	ppb	1.5971	3.1	39.7051	102.85416
Sr 216.596	10.0345	ppb	0.2667	2.7	148.193	100.34451
Ti 334.941	9.9001	ppb	0.0605	0.6	3003.19	99.00133
Tl 190.794	24.6542	ppb	0.9160	3.7	11.6804	98.61696
V 292.401	9.9796	ppb	0.0990	1.0	281.294	99.79625
Zn 206.200	21.8213	ppb	1.1937	5.5	34.6372	109.10641

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**Interf Check A (ICSA) 5/7/2013, 3:31:35 PM Rack S, Tube 5****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.9228u	-0.4782u	-0.6560u
Al 308.215	519131	521158	522867
As 188.980	-2.7432	-3.8811u	-6.1012u
B 249.678	-1.5394u	-2.0423u	-2.9904u
Ba 389.178	2.5481	1.1633	1.0735
Be 313.042	-0.1554u	-0.1505u	-0.1631u
Ca 370.602	480079	482192	482164
Cd 226.502	1.4380	1.2551	1.4198
Co 228.615	1.2988	1.4390	1.3234
Cr 267.716	0.2971	0.5884	0.1597
Cu 324.754	-5.0820u	-6.6264u	-6.4700u
Fe 271.441	185659	185734	185961
K 766.491	6.4301	6.5784	6.4645
Mg 279.078	515979	516798	518441
Mn 257.610	0.7923	0.8917	0.8785
Mo 202.032	1.3837	1.3570	2.2523
Na 330.237	-115.573u	105.741u	201.610u
Ni 231.604	5.7376	3.0455	5.1357
Pb 220.353	4.5931	0.1736	-1.1448
Sb 206.834	7.5031	7.1121	1.7710
Se 196.026	-18.8465u	-5.1261u	4.7931
Sn 189.925	1.9463	7.2569	4.2268
Sr 216.596	8.8740	7.3779	7.6902
Ti 334.941	1.9123	1.8664	1.8929
Tl 190.794	-3.2856u	-8.1850u	-8.2200u
V 292.401	0.9026	1.4794	1.0992
Zn 206.200	13.4790	11.1593	11.9459

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.6856	ppb	0.2238	32.6	-84.4091	-0.68565
Al 308.215	521052	ppb	1870.47	0.4	2417830	-
As 188.980	-4.2418	ppb	1.7078	40.3	-7.0842	-4.24184
B 249.678	-2.1907	ppb	0.7368	33.6	-132.529	-2.19068
Ba 389.178	1.5950	ppb	0.8267	51.8	1666.99	1.59498
Be 313.042	-0.1563	ppb	0.0064	4.1	-479.813	-0.15633
Ca 370.602	481478	ppb	1212	0.3	1531770	-
Cd 226.502	1.3710	ppb	0.1007	7.3	791.897	1.37096
Co 228.615	1.3537	ppb	0.0749	5.5	18.6687	1.35372
Cr 267.716	0.3484	ppb	0.2189	62.8	89.6472	0.34840
Cu 324.754	-6.0595	ppb	0.8501	14.0	29.0766	-6.05949
Fe 271.441	185785	ppb	157.283	0.1	346696	-
K 766.491	6.4910	ppb	0.0777	1.2	620.737	6.49098
Mg 279.078	517073	ppb	1253.80	0.2	1204763	-
Mn 257.610	0.8542	ppb	0.0540	6.3	5789.37	0.85418
Mo 202.032	1.6643	ppb	0.5094	30.6	20.0075	1.66433
Na 330.237	63.9259	ppb	162.674	254.5	3.2712	63.92594
Ni 231.604	4.6396	ppb	1.4129	30.5	13.3231	4.63959
Pb 220.353	1.2073	ppb	3.0054	248.9	45.7992	1.20729
Sb 206.834	5.4620	ppb	3.2025	58.6	15.5720	5.46205
Se 196.026	-6.3932	ppb	11.8706	185.7	9.4472	-6.39319
Sn 189.925	4.4767	ppb	2.6641	59.5	-7.7009	4.47665
Sr 216.596	7.9807	ppb	0.7892	9.9	295.316	7.98067
Ti 334.941	1.8906	ppb	0.0231	1.2	3161.71	1.89057
Tl 190.794	-6.5635	ppb	2.8388	43.3	-33.5793	-6.56353
V 292.401	1.1604	ppb	0.2932	25.3	28.1438	1.16039
Zn 206.200	12.1947	ppb	1.1797	9.7	39.8535	12.19473

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Interf Check AB (ICSAB) 5/7/2013, 3:37:01 PM Rack S, Tube 6

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	221.115	218.887	219.491
Al 308.215	536407	533530	535643
As 188.980	111.323	114.274	109.939
B 249.678	-7.5187u	-6.5057u	-7.2759u
Ba 389.178	527.683	526.347	527.203
Be 313.042	512.046	510.801	509.954
Ca 370.602	494474	488245	491002
Cd 226.502	1007.39	1008.13	1009.33
Co 228.615	503.539	506.895	501.308
Cr 267.716	516.273	515.826	515.864
Cu 324.754	570.814	558.578	561.981
Fe 271.441	190863	190498	190714
K 766.491	-1.1985u	-0.8248u	-1.9170u
Mg 279.078	529989	530542	531125
Mn 257.610	534.282	534.581	534.537
Mo 202.032	1093.20	1090.45	1095.17
Na 330.237	-329.498u	-208.664u	-195.277u
Ni 231.604	994.150	991.648	997.007
Pb 220.353	53.0702	48.4281	48.8360
Sb 206.834	639.965	635.442	643.691
Se 196.026	56.3757	37.2595	49.4525
Sn 189.925	1019.15	1030.74	1028.27
Sr 216.596	9.1673	8.7339	9.1541
Ti 334.941	1.8849	1.8780	1.9242
Tl 190.794	96.2881	92.7200	93.0719
V 292.401	501.717	501.966	501.185
Zn 206.200	996.350	997.560	1003.98

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	219.831	ppb	1.1522	0.5	17756.4	109.91569
Al 308.215	535194	ppb	1490.23	0.3	2483560	107.03873
As 188.980	111.845	ppb	2.2144	2.0	48.3423	111.84528
B 249.678	-7.1001	ppb	0.5289	7.4	-205.637	-
Ba 389.178	527.077	ppb	0.6768	0.1	13923.1	105.41547
Be 313.042	510.934	ppb	1.0522	0.2	969918	102.18675
Ca 370.602	491240	ppb	3121	0.6	1562746	98.24803
Cd 226.502	1008.28	ppb	0.9791	0.1	42556.3	100.82808
Co 228.615	503.914	ppb	2.8124	0.6	6768.72	100.78282
Cr 267.716	515.988	ppb	0.2478	0.0	27318.2	103.19756
Cu 324.754	563.791	ppb	6.3159	1.1	26940.3	112.75820
Fe 271.441	190692	ppb	183.549	0.1	355941	95.34589
K 766.491	-1.3134	ppb	0.5551	42.3	319.958	-
Mg 279.078	530552	ppb	568.068	0.1	1236158	106.11034
Mn 257.610	534.467	ppb	0.1614	0.0	148579	106.89337
Mo 202.032	1092.94	ppb	2.3688	0.2	8939.79	109.29433
Na 330.237	-244.480	ppb	73.9313	30.2	-23.2027	-
Ni 231.604	994.268	ppb	2.6813	0.3	3084.32	99.42683
Pb 220.353	50.1114	ppb	2.5705	5.1	145.904	100.22289
Sb 206.834	639.700	ppb	4.1308	0.6	791.793	106.61658
Se 196.026	47.6959	ppb	9.6784	20.3	39.5442	95.39182
Sn 189.925	1026.05	ppb	6.1032	0.6	1029.01	102.60531
Sr 216.596	9.0184	ppb	0.2465	2.7	245.692	-
Ti 334.941	1.8957	ppb	0.0249	1.3	3227.96	-
Tl 190.794	94.0267	ppb	1.9664	2.1	77.0207	94.02667
V 292.401	501.623	ppb	0.3992	0.1	14432.0	100.32451
Zn 206.200	999.295	ppb	4.0993	0.4	1648.02	99.92955



E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

LRA1 (Samp) 5/7/2013, 3:47:28 PM Rack S, Tube 7

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1153	-0.0058	-0.3007
Al 308.215	43.6689	51.6888	67.8462
As 188.980	21645.8x	21869.8x	21753.3x
B 249.678	5331.94x	5374.24x	5378.65x
Ba 389.178	-1.6704u	-2.3733u	-2.2950u
Be 313.042	0.1104	0.1061	0.1209
Ca 370.602	950.8	970.8	971.0
Cd 226.502	-0.6109u	-0.4832u	-0.5235u
Co 228.615	10974.7	10963.1	10954.7
Cr 267.716	-2.1706	-2.0813	-2.2305
Cu 324.754	-8.4250u	-8.7472u	-8.1208u
Fe 271.441	-66.7834	-70.9601	-64.8683
K 766.491	-2.4646u	-1.9769u	-1.7502u
Mg 279.078	43.6406u	46.8940u	63.8168u
Mn 257.610	29829.6x	29769.3x	29791.6x
Mo 202.032	0.4837	-0.2094u	0.5730
Na 330.237	101672x	101484x	101429x
Ni 231.604	11053.4x	11096.6x	11049.4x
Pb 220.353	21182.9x	21255.0x	21171.8x
Sb 206.834	8.0308	2.9937	1.9782
Se 196.026	3.9274	9.4291	1.2647
Sn 189.925	1.8253	-2.3868u	-1.3286u
Sr 216.596	-4.4716u	-4.6281u	-4.6782u
Ti 334.941	27918.9	28074.6	28034.3
Tl 190.794	87.6849	89.2581	90.1126
V 292.401	-5.2044	-5.5667	-4.8537
Zn 206.200	3.3824	3.7237	2.8119

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1406b	ppb	0.1490	106.0	116.313
Al 308.215	54.4013b	ppb	12.3148	22.6	324.605
As 188.980	21756.3xb	ppb	112.048	0.5	10417.5
B 249.678	5361.61xb	ppb	25.7883	0.5	72660.5
Ba 389.178	-2.1129b	ppb	0.3852	18.2	-42.8258
Be 313.042	0.1125b	ppb	0.0076	6.8	-193.534
Ca 370.602	964.2b	ppb	11.64	1.2	9128
Cd 226.502	-0.5392b	ppb	0.0653	12.1	17.7517
Co 228.615	10964.2b	ppb	10.0762	0.1	149040
Cr 267.716	-2.1608b	ppb	0.0751	3.5	106.393
Cu 324.754	-8.4310b	ppb	0.3133	3.7	-134.660
Fe 271.441	-67.5373b	ppb	3.1151	4.6	1841.33
K 766.491	-2.0639b	ppb	0.3651	17.7	291.035
Mg 279.078	51.4505b	ppb	10.8324	21.1	-368.478
Mn 257.610	29796.8xb	ppb	30.4516	0.1	7965810
Mo 202.032	0.2824b	ppb	0.4282	151.6	19.1164
Na 330.237	101528xb	ppb	127.521	0.1	5374.67
Ni 231.604	11066.5xb	ppb	26.1837	0.2	34334.0
Pb 220.353	21203.2xb	ppb	45.2056	0.2	44102.3
Sb 206.834	4.3342b	ppb	3.2413	74.8	9.0108
Se 196.026	4.8737b	ppb	4.1637	85.4	22.7040
Sn 189.925	-0.6300b	ppb	2.1912	347.8	-13.0811
Sr 216.596	-4.5926b	ppb	0.1078	2.3	-262.261
Ti 334.941	28009.3b	ppb	80.8468	0.3	8607717
Tl 190.794	89.0185b	ppb	1.2314	1.4	41.1002
V 292.401	-5.2082b	ppb	0.3565	6.8	311.417
Zn 206.200	3.3060b	ppb	0.4607	13.9	334.5669

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**LRA2 (Samp)** **5/7/2013, 3:52:55 PM** **Rack S, Tube 8****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0581u	-0.6637u	-1.1279u
Al 308.215	857105	854958	855436
As 188.980	97.3868	105.989	106.385
B 249.678	105.402	90.8649	79.5448u
Ba 389.178	12.8311	11.0718	11.3941
Be 313.042	-0.1201	-0.1105	-0.1206
Ca 370.602	762257	760946	759758
Cd 226.502	7.1199	6.2861	6.5084
Co 228.615	10.0830	8.8729	9.7165
Cr 267.716	8.0522	8.2149	8.1205
Cu 324.754	-42.0999u	-42.1394u	-42.5907u
Fe 271.441	911409	911321	907436
K 766.491	420784x	420397x	419672x
Mg 279.078	820392	821434	817433
Mn 257.610	8.4634	8.2611	8.4183
Mo 202.032	4.4438u	3.6753u	5.3042u
Na 330.237	-1353.34u	-1240.61u	-1237.40u
Ni 231.604	8.4573	10.2277	9.8563
Pb 220.353	32.3043	31.9364	29.4121
Sb 206.834	10.4510	8.0200	8.8552
Se 196.026	-28.9085u	-8.3595	-26.9901u
Sn 189.925	7.0249	4.6997	7.1309
Sr 216.596	44.5316	41.9521	42.3500
Ti 334.941	5.7662	5.6262	5.5165
Tl 190.794	-37.1175u	-26.6037u	-31.4366u
V 292.401	5.1168	5.2714	5.7886
Zn 206.200	27678.8	27621.7	27504.2

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5778b	ppb	0.5977	103.4	-84.3729
Al 308.215	855833b	ppb	1127.73	0.1	3971262
As 188.980	103.254b	ppb	5.0847	4.9	40.4690
B 249.678	91.9371b	ppb	12.9618	14.1	167.359
Ba 389.178	11.7657b	ppb	0.9366	8.0	3722.14
Be 313.042	-0.1171b	ppb	0.0057	4.9	-324.383
Ca 370.602	760987b	ppb	1250	0.2	2370508
Cd 226.502	6.6381b	ppb	0.4318	6.5	3705.13
Co 228.615	9.5575b	ppb	0.6206	6.5	101.353
Cr 267.716	8.1292b	ppb	0.0817	1.0	691.144
Cu 324.754	-42.2767b	ppb	0.2727	0.6	-1477.90
Fe 271.441	910055b	ppb	2268.86	0.2	1697851
K 766.491	420284xb	ppb	564.260	0.1	16197975
Mg 279.078	819753b	ppb	2075.25	0.3	1910090
Mn 257.610	8.3809b	ppb	0.1062	1.3	12939.1
Mo 202.032	4.4744b	ppb	0.8149	18.2	2.1579
Na 330.237	-1277.11b	ppb	66.0308	5.2	-556.681
Ni 231.604	9.5138b	ppb	0.9336	9.8	46.3241
Pb 220.353	31.2176b	ppb	1.5744	5.0	115.515
Sb 206.834	9.1087b	ppb	1.2352	13.6	40.4878
Se 196.026	-21.4193b	ppb	11.3508	53.0	5.8769
Sn 189.925	6.2852b	ppb	1.3741	21.9	-5.7514
Sr 216.596	42.9446b	ppb	1.3888	3.2	1222.46
Ti 334.941	5.6363b	ppb	0.1252	2.2	5917.10
Tl 190.794	-31.7193b	ppb	5.2626	16.6	-102.737
V 292.401	5.3923b	ppb	0.3518	6.5	153.454
Zn 206.200	27601.6b	ppb	89.0420	0.3	45099.6

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RINSE (Samp) 5/7/2013, 3:58:21 PM Rack S, Tube 1

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2366u	0.0853	0.1556
Al 308.215	-2.9004u	4.6826	3.4122
As 188.980	33.3791	47.9016	31.6842
B 249.678	43.7775	43.0931	34.5568
Ba 389.178	-0.2113u	-0.7280u	-0.3325u
Be 313.042	-0.0043u	-0.0059u	0.0239
Ca 370.602	1.097	7.112	6.242
Cd 226.502	-0.3056u	-0.2097u	-0.2584u
Co 228.615	0.5887	-0.1342u	-0.3068u
Cr 267.716	-0.1484u	-0.1979u	-0.1241u
Cu 324.754	-0.4240u	-0.3599u	-0.9745u
Fe 271.441	-0.0351u	14.3650	7.9159
K 766.491	0.4890	3.2514	4.5450
Mg 279.078	-0.6060u	1.3652	7.5157
Mn 257.610	-0.0933u	-0.0713u	-0.0988u
Mo 202.032	-0.3616u	0.0319	0.0313
Na 330.237	-355.612u	-76.5413u	-293.390u
Ni 231.604	0.1489	-0.4588u	0.6813
Pb 220.353	1.0923	1.2364	-1.3481u
Sb 206.834	-0.3284u	2.8301	2.8043
Se 196.026	-4.6792u	3.2987	-6.3788u
Sn 189.925	2.2563	0.5030	2.1058
Sr 216.596	0.0547	0.0515	-0.5439u
Ti 334.941	0.6970	0.7418	0.6901
Tl 190.794	2.0880	0.7290	0.9774
V 292.401	-0.0546u	0.1093	-0.2264u
Zn 206.200	0.7288	0.3904	1.2077

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0014	ppb	0.2091	14555.6	-20.8855
Al 308.215	1.7315	ppb	4.0613	234.6	80.3241
As 188.980	37.6550	ppb	8.9142	23.7	11.3143
B 249.678	40.4758	ppb	5.1374	12.7	694.530
Ba 389.178	-0.4239	ppb	0.2703	63.8	-4.2905
Be 313.042	0.0046	ppb	0.0168	367.0	-368.273
Ca 370.602	4.817	ppb	3.251	67.5	22.56
Cd 226.502	-0.2579	ppb	0.0480	18.6	26.6137
Co 228.615	0.0492	ppb	0.4751	964.8	8.1947
Cr 267.716	-0.1568	ppb	0.0376	24.0	9.1951
Cu 324.754	-0.5861	ppb	0.3379	57.6	235.500
Fe 271.441	7.4153	ppb	7.2131	97.3	121.587
K 766.491	2.7618	ppb	2.0718	75.0	477.016
Mg 279.078	2.7583	ppb	4.2363	153.6	45.5962
Mn 257.610	-0.0878	ppb	0.0146	16.6	50.4171
Mo 202.032	-0.0995	ppb	0.2270	228.2	16.0655
Na 330.237	-241.848	ppb	146.501	60.6	55.7569
Ni 231.604	0.1238	ppb	0.5705	460.8	-5.4582
Pb 220.353	0.3269	ppb	1.4524	444.3	32.3204
Sb 206.834	1.7687	ppb	1.8162	102.7	5.8145
Se 196.026	-2.5864	ppb	5.1671	199.8	10.3320
Sn 189.925	1.6217	ppb	0.9717	59.9	-10.8384
Sr 216.596	-0.1459	ppb	0.3447	236.2	18.4310
Ti 334.941	0.7096	ppb	0.0281	4.0	176.386
Tl 190.794	1.2648	ppb	0.7236	57.2	-14.2822
V 292.401	-0.0572	ppb	0.1679	293.4	-10.2539
Zn 206.200	0.7756	ppb	0.4106	52.9	0.3560

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Verif (CCV) 5/7/2013, 4:03:44 PM Rack 1, Tube 1  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	486.881	488.516	486.031
Al 308.215	4827.03	4842.04	4882.16
As 188.980	522.936	513.531	511.268
B 249.678	515.945	518.600	519.383
Ba 389.178	5069.59	5056.09	5071.19
Be 313.042	504.747	505.490	509.215
Ca 370.602	4954	4966	4998
Cd 226.502	511.902	513.133	512.729
Co 228.615	515.191	517.282	517.129
Cr 267.716	5088.34	5085.38	5092.45
Cu 324.754	4954.31	5025.37	5034.52
Fe 271.441	4888.75	4873.22	4896.44
K 766.491	10039.2	10024.0	10021.0
Mg 279.078	4889.37	4885.42	4906.80
Mn 257.610	5191.83	5190.71	5202.99
Mo 202.032	496.810	496.997	498.990
Na 330.237	7153.39	7146.25	7049.75
Ni 231.604	2576.13	2577.04	2576.82
Pb 220.353	489.777	488.581	490.877
Sb 206.834	959.862	964.688	967.053
Se 196.026	4881.96	4907.54	4914.32
Sn 189.925	4988.02	5031.42	5001.30
Sr 216.596	2488.11	2495.09	2496.56
Ti 334.941	490.355	488.966	489.416
Tl 190.794	4984.83	4964.85	4975.29
V 292.401	4906.09	4901.42	4904.48
Zn 206.200	2563.41	2567.77	2585.16

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	487.143	ppb	1.2627	0.3	39314.5	97.42852
Al 308.215	4850.41	ppb	28.5007	0.6	22561.5	97.00824
As 188.980	515.912	ppb	6.1878	1.2	240.355	103.18236
B 249.678	517.976	ppb	1.8019	0.3	7145.97	20.71904Q
Ba 389.178	5065.62	ppb	8.2976	0.2	117732	101.31249
Be 313.042	506.484	ppb	2.3940	0.5	961199	101.29677
Ca 370.602	4973	ppb	22.34	0.4	15865	99.45563
Cd 226.502	512.588	ppb	0.6278	0.1	21307.2	102.51759
Co 228.615	516.534	ppb	1.1655	0.2	6998.77	103.30680
Cr 267.716	5088.72	ppb	3.5474	0.1	268817	101.77445
Cu 324.754	5004.73	ppb	43.9054	0.9	236360	100.09467
Fe 271.441	4886.14	ppb	11.8318	0.2	9360.57	97.72272
K 766.491	10028.1	ppb	9.7554	0.1	386849	100.28082
Mg 279.078	4893.86	ppb	11.3762	0.2	11350.0	97.87729
Mn 257.610	5195.18	ppb	6.7930	0.1	1388988	103.90354
Mo 202.032	497.599	ppb	1.2084	0.2	4074.01	99.51984
Na 330.237	7116.46	ppb	57.8841	0.8	430.960	94.88615
Ni 231.604	2576.66	ppb	0.4764	0.0	7989.80	103.06638
Pb 220.353	489.745	ppb	1.1482	0.2	1050.07	97.94901
Sb 206.834	963.868	ppb	3.6651	0.4	1253.07	96.38680
Se 196.026	4901.27	ppb	17.0614	0.3	2724.14	98.02546
Sn 189.925	5006.92	ppb	22.2388	0.4	5068.57	100.13833
Sr 216.596	2493.25	ppb	4.5152	0.2	32017.9	99.73018
Ti 334.941	489.579	ppb	0.7085	0.1	150439	97.91576
Tl 190.794	4974.99	ppb	9.9936	0.2	5503.40	99.49975
V 292.401	4904.00	ppb	2.3685	0.0	143274	98.07993
Zn 206.200	2572.11	ppb	11.5950	0.4	4176.66	102.88460

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Blank (CCB) 5/7/2013, 4:16:26 PM Rack 1, Tube 2

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0269	-0.5315u	-0.1020u
Al 308.215	2.3811	4.0697	3.4326
As 188.980	11.3889	5.9693	11.7230
B 249.678	8.9026	9.1861	8.4651
Ba 389.178	-0.0916u	0.5054	-0.5137u
Be 313.042	0.0407	0.0262	0.0219
Ca 370.602	5.085	7.035	6.929
Cd 226.502	-0.3450u	-0.0851u	-0.1460u
Co 228.615	0.6754	0.0705	0.1790
Cr 267.716	0.3179	0.4175	0.1844
Cu 324.754	0.3392	0.7769	0.1932
Fe 271.441	5.1132	5.7564	0.5862
K 766.491	-0.6415u	0.0230	1.3017
Mg 279.078	1.8261	5.1653	2.3214
Mn 257.610	0.5203	2.0397	4.0142
Mo 202.032	-0.2279u	-0.0488u	0.2915
Na 330.237	-215.944u	44.1424	-184.439u
Ni 231.604	-0.9568u	0.8059	0.3234
Pb 220.353	0.3202	2.9165	-0.4838u
Sb 206.834	6.8828	0.8030	2.2520
Se 196.026	2.4147	4.6230	-2.1956u
Sn 189.925	-1.3381u	1.6983	0.2411
Sr 216.596	0.3299	0.5150	0.2528
Ti 334.941	0.1709	0.1758	0.1543
Tl 190.794	4.7266	-0.8683u	1.0955
V 292.401	0.3496	0.2007	0.4626
Zn 206.200	0.9497	-0.7187u	1.6240

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2022	ppb	0.2923	144.6	-37.3578	-0.20219
Al 308.215	3.2945	ppb	0.8527	25.9	87.5779	3.29451
As 188.980	9.6937	ppb	3.2298	33.3	-2.0828	9.69373
B 249.678	8.8513	ppb	0.3632	4.1	266.822	8.85129
Ba 389.178	-0.0333	ppb	0.5120	1537.3	4.7796	-0.03331
Be 313.042	0.0296	ppb	0.0099	33.3	-320.784	0.02961
Ca 370.602	6.349	ppb	1.096	17.3	27.85	6.34946
Cd 226.502	-0.1920	ppb	0.1359	70.8	29.3275	-0.19200
Co 228.615	0.3083	ppb	0.3225	104.6	11.6796	0.30826
Cr 267.716	0.3066	ppb	0.1169	38.1	33.6835	0.30660
Cu 324.754	0.4364	ppb	0.3037	69.6	283.742	0.43643
Fe 271.441	3.8186	ppb	2.8177	73.8	114.923	3.81861
K 766.491	0.2277	ppb	0.9876	433.7	379.353	0.22772
Mg 279.078	3.1043	ppb	1.8020	58.1	46.3593	3.10427
Mn 257.610	2.1914	ppb	1.7519	79.9	659.712	2.19139
Mo 202.032	0.0049	ppb	0.2638	5333.5	16.9186	0.00495
Na 330.237	-118.747	ppb	141.943	119.5	62.4796	-118.74678
Ni 231.604	0.0575	ppb	0.9109	1584.1	-5.6641	0.05751
Pb 220.353	0.9176	ppb	1.7771	193.7	33.5495	0.91763
Sb 206.834	3.3126	ppb	3.1757	95.9	7.7240	3.31260
Se 196.026	1.6140	ppb	3.4791	215.6	12.6559	1.61403
Sn 189.925	0.2004	ppb	1.5186	757.8	-12.2807	0.20041
Sr 216.596	0.3659	ppb	0.1348	36.8	24.9995	0.36592
Ti 334.941	0.1670	ppb	0.0112	6.7	9.6142	0.16701
Tl 190.794	1.6513	ppb	2.8386	171.9	-13.8561	1.65128
V 292.401	0.3376	ppb	0.1314	38.9	1.2638	0.33764
Zn 206.200	0.6183	ppb	1.2960	195.0	0.0975	0.61834

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89828-b-7-a^20 (Samp) 5/7/2013, 4:22:32 PM Rack 1, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1026	0.2697	0.2307
Al 308.215	5.2152	7.3899	11.7438
As 188.980	10.4511	6.9275	16.3953
B 249.678	72.7780	71.9872	69.4327
Ba 389.178	-2.1287u	-1.9902u	-2.2352u
Be 313.042	-0.0026u	-0.0082u	-0.0020u
Ca 370.602	7058	6923	6715
Cd 226.502	-0.1484u	-0.1770u	-0.0737u
Co 228.615	0.2897	0.1150	0.0439
Cr 267.716	7.5699	7.5431	7.4567
Cu 324.754	-0.3846u	0.8021	-0.3192u
Fe 271.441	-6.5210u	-3.0088u	-4.1295u
K 766.491	753.572	740.391	717.245
Mg 279.078	777.736	767.363	746.677
Mn 257.610	17858.9	17552.3	17073.9
Mo 202.032	-0.2505u	-0.5120u	-0.1656u
Na 330.237	11862.3	11777.1	11642.9
Ni 231.604	-1.4692u	-1.5825u	-0.4394u
Pb 220.353	-2.2491	0.8595	0.0617
Sb 206.834	5.6133	5.7682	4.3211
Se 196.026	2.3404	4.4069	5.2451
Sn 189.925	0.9450	-0.4665u	-0.6206u
Sr 216.596	60.6265	58.5602	57.3241
Ti 334.941	0.0357	0.0900	0.0972
Tl 190.794	32.1603	28.0065	29.4792
V 292.401	-0.6293u	-0.7550u	-0.9902u
Zn 206.200	0.3601	1.7277	2.1579

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2010	ppb	0.0874	43.5	78.6597
Al 308.215	8.1163	ppb	3.3243	41.0	109.956
As 188.980	11.2579	ppb	4.7852	42.5	-1.2872
B 249.678	71.3993	ppb	1.7484	2.4	1112.78
Ba 389.178	-2.1180	ppb	0.1229	5.8	-42.0192
Be 313.042	-0.0043	ppb	0.0034	80.8	-388.978
Ca 370.602	6898	ppb	172.7	2.5	22667
Cd 226.502	-0.1330	ppb	0.0534	40.1	31.6753
Co 228.615	0.1496	ppb	0.1265	84.6	9.5705
Cr 267.716	7.5232	ppb	0.0591	0.8	498.348
Cu 324.754	0.0328	ppb	0.6671	2035.6	264.702
Fe 271.441	-4.5531	ppb	1.7940	39.4	99.2883
K 766.491	737.069	ppb	18.3897	2.5	28777.0
Mg 279.078	763.925	ppb	15.8120	2.1	1509.37
Mn 257.610	17495.0	ppb	395.627	2.3	4677111
Mo 202.032	-0.3094	ppb	0.1806	58.4	14.3520
Na 330.237	11760.8	ppb	110.585	0.9	710.377
Ni 231.604	-1.1637	ppb	0.6298	54.1	-9.4537
Pb 220.353	-0.4427	ppb	1.6145	364.7	35.4503
Sb 206.834	5.2342	ppb	0.7945	15.2	10.2043
Se 196.026	3.9975	ppb	1.4950	37.4	18.8123
Sn 189.925	-0.0473	ppb	0.8629	1822.9	-12.5234
Sr 216.596	58.8369	ppb	1.6685	2.8	777.901
Ti 334.941	0.0743	ppb	0.0336	45.2	-16.7730
Tl 190.794	29.8820	ppb	2.1060	7.0	-10.9870
V 292.401	-0.7915	ppb	0.1832	23.1	-32.4755
Zn 206.200	1.4152	ppb	0.9388	66.3	337.3676

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**mb 680-275723/1-a (Samp)**      **5/7/2013, 4:27:56 PM**      **Rack 1, Tube 4**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0981u	-0.1535u	-0.1417u
Al 308.215	0.2186	1.9445	-0.0442u
As 188.980	2.8138	-1.8181u	12.8106
B 249.678	5.5189	5.6968	5.6580
Ba 389.178	-0.5692u	-0.7553u	-0.3746u
Be 313.042	-0.0137u	-0.0013u	-0.0100u
Ca 370.602	-1.482u	-2.486u	1.113
Cd 226.502	-0.1727u	-0.1828u	0.0845
Co 228.615	0.0212	-0.1772u	0.2913
Cr 267.716	-0.1528u	-0.1201u	0.0273
Cu 324.754	-0.2119u	0.8046	0.4931
Fe 271.441	2.0323	2.9646	1.4137
K 766.491	0.4195	0.2198	0.4344
Mg 279.078	0.9513	-0.3165u	0.0239
Mn 257.610	1.0217	2.3586	2.3703
Mo 202.032	0.0202	-0.2398u	0.2717
Na 330.237	-99.0825u	-212.254u	-65.2483u
Ni 231.604	0.5155	0.4232	-0.8273u
Pb 220.353	0.8932	2.4825	0.4510
Sb 206.834	-1.2082u	0.2657	0.6132
Se 196.026	-5.7805u	-3.6384u	-3.2106u
Sn 189.925	-1.6501u	2.0404	1.0457
Sr 216.596	-0.1801u	0.0593	-0.3418u
Ti 334.941	0.0475	0.0660	0.0388
Tl 190.794	2.1999	0.3072	3.4962
V 292.401	0.1422	0.0787	-0.3805u
Zn 206.200	0.2789	-0.8078u	0.8174

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1311	ppb	0.0292	22.3	-31.5824
Al 308.215	0.7063	ppb	1.0804	153.0	75.5844
As 188.980	4.6021	ppb	7.4765	162.5	-4.5225
B 249.678	5.6246	ppb	0.0935	1.7	223.185
Ba 389.178	-0.5664	ppb	0.1904	33.6	-7.6165
Be 313.042	-0.0083	ppb	0.0064	76.6	-392.818
Ca 370.602	-0.9517	ppb	1.857	195.1	4.555
Cd 226.502	-0.0903	ppb	0.1515	167.7	33.5348
Co 228.615	0.0451	ppb	0.2352	521.6	8.1133
Cr 267.716	-0.0818	ppb	0.0959	117.2	13.1623
Cu 324.754	0.3619	ppb	0.5208	143.9	280.231
Fe 271.441	2.1369	ppb	0.7807	36.5	111.737
K 766.491	0.3579	ppb	0.1198	33.5	384.370
Mg 279.078	0.2196	ppb	0.6561	298.8	39.6431
Mn 257.610	1.9169	ppb	0.7752	40.4	586.285
Mo 202.032	0.0174	ppb	0.2558	1470.7	17.0213
Na 330.237	-125.528	ppb	76.9883	61.3	62.1140
Ni 231.604	0.0372	ppb	0.7501	2018.4	-5.7273
Pb 220.353	1.2756	ppb	1.0683	83.8	34.2936
Sb 206.834	-0.1098	ppb	0.9670	880.7	3.4925
Se 196.026	-4.2098	ppb	1.3770	32.7	9.4346
Sn 189.925	0.4787	ppb	1.9094	398.9	-11.9983
Sr 216.596	-0.1542	ppb	0.2018	130.9	18.3087
Ti 334.941	0.0508	ppb	0.0139	27.4	-26.1174
Tl 190.794	2.0011	ppb	1.6038	80.1	-13.4674
V 292.401	-0.0532	ppb	0.2852	536.2	-10.1869
Zn 206.200	0.0962	ppb	0.8278	860.8	30.7528

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

ics 680-275723/2-a (Samp)      5/7/2013, 4:38:26 PM      Rack 1, Tube 5  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	101.289	102.177	101.176
Al 308.215	9978.40	9939.55	9962.43
As 188.980	218.989	226.255	214.133
B 249.678	388.067	391.796	392.549
Ba 389.178	208.781	208.409	206.752
Be 313.042	105.182	104.835	104.879
Ca 370.602	9882	9853	9874
Cd 226.502	106.034	106.081	107.058
Co 228.615	105.645	105.521	105.444
Cr 267.716	208.920	209.011	208.846
Cu 324.754	210.386	210.907	211.880
Fe 271.441	9954.53	9936.76	9956.25
K 766.491	10546.3	10485.4	10444.3
Mg 279.078	10025.5	10015.0	10034.4
Mn 257.610	1083.98	1084.10	1083.66
Mo 202.032	204.826	205.275	203.937
Na 330.237	9699.39	9482.27	9570.06
Ni 231.604	210.078	210.875	210.407
Pb 220.353	100.175	101.811	101.863
Sb 206.834	101.823	97.8244	98.1262
Se 196.026	201.491	199.299	201.621
Sn 189.925	402.283	403.439	402.821
Sr 216.596	203.486	203.014	204.994
Ti 334.941	200.375	200.199	199.697
Tl 190.794	81.3628	81.2198	87.3489
V 292.401	204.127	204.074	203.791
Zn 206.200	213.618	216.381	217.446

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	101.547	ppb	0.5481	0.5	8188.59
Al 308.215	9960.13	ppb	19.5250	0.2	46307.7
As 188.980	219.792	ppb	6.1006	2.8	98.5266
B 249.678	390.804	ppb	2.4002	0.6	5419.29
Ba 389.178	207.981	ppb	1.0803	0.5	4879.59
Be 313.042	104.965	ppb	0.1889	0.2	198919
Ca 370.602	9870	ppb	15.28	0.2	30975
Cd 226.502	106.391	ppb	0.5778	0.5	4485.19
Co 228.615	105.537	ppb	0.1011	0.1	1431.97
Cr 267.716	208.926	ppb	0.0827	0.0	11059.9
Cu 324.754	211.058	ppb	0.7585	0.4	10227.2
Fe 271.441	9949.18	ppb	10.7874	0.1	18688.4
K 766.491	10492.0	ppb	51.3221	0.5	404727
Mg 279.078	10025.0	ppb	9.7361	0.1	23378.4
Mn 257.610	1083.91	ppb	0.2274	0.0	289968
Mo 202.032	204.679	ppb	0.6807	0.3	1689.12
Na 330.237	9583.91	ppb	109.222	1.1	584.616
Ni 231.604	210.453	ppb	0.4003	0.2	647.453
Pb 220.353	101.283	ppb	0.9596	0.9	242.226
Sb 206.834	99.2580	ppb	2.2268	2.2	126.663
Se 196.026	200.803	ppb	1.3048	0.6	123.192
Sn 189.925	402.848	ppb	0.5784	0.1	396.337
Sr 216.596	203.831	ppb	1.0343	0.5	2636.14
Ti 334.941	200.090	ppb	0.3517	0.2	61500.4
Tl 190.794	83.3105	ppb	3.4981	4.2	74.5803
V 292.401	203.997	ppb	0.1807	0.1	5916.50
Zn 206.200	215.815	ppb	1.9760	0.9	351.379



E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

lb 680-274788/21-e (Samp) 5/7/2013, 4:44:02 PM Rack 1, Tube 6

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0918u	-0.0474u	-0.0692u
Al 308.215	1.1771	2.3677	4.1109
As 188.980	-2.0630u	1.8806	4.7298
B 249.678	31.5803	31.2890	31.4204
Ba 389.178	-0.4757u	0.0208	-0.3904u
Be 313.042	-0.0103u	-0.0048u	-0.0061u
Ca 370.602	199.7	201.7	196.4
Cd 226.502	0.0324	-0.0988u	-0.1237u
Co 228.615	-0.3799u	0.5178	0.3637
Cr 267.716	-0.0862u	0.0271	-0.0606u
Cu 324.754	0.2937	0.4329	0.1680
Fe 271.441	-3.3032u	-5.1773u	2.1029
K 766.491	54.8423	55.0268	54.4809
Mg 279.078	46.7872	47.5077	48.6041
Mn 257.610	-0.1247u	-0.0993u	-0.1054u
Mo 202.032	0.0255	0.3379	-0.3909u
Na 330.237	124093x	125947x	124492x
Ni 231.604	0.1833	0.5148	-0.5693u
Pb 220.353	0.3340	0.8873	-0.5494u
Sb 206.834	0.2627	-0.3661u	1.8312
Se 196.026	-0.6424u	1.6138	-0.4793u
Sn 189.925	3.7302	2.6168	0.5494
Sr 216.596	-0.0512u	0.1129	0.2140
Ti 334.941	-0.0542u	0.0566	0.0273u
Tl 190.794	0.9565	-0.3005u	1.2085
V 292.401	-0.2863u	-0.1085u	-0.1479u
Zn 206.200	2.5157	2.5844	2.5379

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0695b	ppb	0.0222	32.0	-26.6216
Al 308.215	2.5519b	ppb	1.4755	57.8	84.1356
As 188.980	1.5158b	ppb	3.4111	225.0	-5.9998
B 249.678	31.4299b	ppb	0.1459	0.5	572.199
Ba 389.178	-0.2818b	ppb	0.2655	94.2	-0.8833
Be 313.042	-0.0070b	ppb	0.0029	40.6	-404.903
Ca 370.602	199.3b	ppb	2.656	1.3	648.0
Cd 226.502	-0.0634b	ppb	0.0839	132.4	33.8650
Co 228.615	0.1672b	ppb	0.4800	287.1	9.7661
Cr 267.716	-0.0399b	ppb	0.0594	148.8	17.8226
Cu 324.754	0.2982b	ppb	0.1325	44.4	277.223
Fe 271.441	-2.1259b	ppb	3.7802	177.8	103.805
K 766.491	54.7833b	ppb	0.2777	0.5	2481.91
Mg 279.078	47.6330b	ppb	0.9149	1.9	150.158
Mn 257.610	-0.1098b	ppb	0.0133	12.1	44.1411
Mo 202.032	-0.0092b	ppb	0.3656	3983.2	16.8046
Na 330.237	124844xb	ppb	975.665	0.8	6877.86
Ni 231.604	0.0429b	ppb	0.5555	1294.3	-5.7095
Pb 220.353	0.2240b	ppb	0.7246	323.5	32.1069
Sb 206.834	0.5759b	ppb	1.1316	196.5	4.3421
Se 196.026	0.1640b	ppb	1.2582	767.0	11.8532
Sn 189.925	2.2988b	ppb	1.6141	70.2	-10.0968
Sr 216.596	0.0919b	ppb	0.1339	145.6	21.4897
Ti 334.941	0.0099b	ppb	0.0574	580.3	-49.1508
Tl 190.794	0.6215b	ppb	0.8084	130.1	-14.9961
V 292.401	-0.1809b	ppb	0.0934	51.6	-14.9658
Zn 206.200	2.5460b	ppb	0.0351	1051.4	3372406

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**680-89781-a-2-k (Samp)**                      **5/7/2013, 4:49:28 PM**                      **Rack 1, Tube 7**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1123u	-0.3325u	-0.1452u
Al 308.215	14.8977	15.1337	13.5148
As 188.980	3.7111	-0.7727u	1.2772
B 249.678	45.9240	45.4413	46.1543
Ba 389.178	9.0612	9.8683	8.7318
Be 313.042	0.0133	0.0286	0.0186
Ca 370.602	1109	1109	1111
Cd 226.502	-0.0071u	0.1357	0.0089
Co 228.615	-0.0047u	0.0408	0.7419
Cr 267.716	0.1810	-0.0214	-0.1034u
Cu 324.754	0.0425	0.2459	0.4449
Fe 271.441	252.190	250.127	252.870
K 766.491	332.853	333.179	334.700
Mg 279.078	357.850	361.532	364.197
Mn 257.610	17.1967	17.2125	17.2483
Mo 202.032	-0.0527u	-0.1551u	-0.3706u
Na 330.237	125249x	126201x	125171x
Ni 231.604	0.5043	1.5824	1.0685
Pb 220.353	7.1325	5.2749	8.7203
Sb 206.834	4.1181	6.5161	3.6772
Se 196.026	0.5946	9.5681	2.7438
Sn 189.925	3.9937	-0.3494u	2.4306
Sr 216.596	4.0213	4.3836	4.2492
Ti 334.941	0.0310	0.0201u	0.0254u
Tl 190.794	-0.1632u	-1.5517u	-0.1332u
V 292.401	-0.1951u	-0.1212u	-0.1926u
Zn 206.200	40.9757	42.1419	42.3050

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1967b	ppb	0.1188	60.4	-37.0353
Al 308.215	14.5154b	ppb	0.8746	6.0	139.656
As 188.980	1.4052b	ppb	2.2447	159.7	-6.0489
B 249.678	45.8399b	ppb	0.3638	0.8	766.752
Ba 389.178	9.2204b	ppb	0.5847	6.3	221.068
Be 313.042	0.0202b	ppb	0.0078	38.5	-353.059
Ca 370.602	1110b	ppb	1.535	0.1	3553
Cd 226.502	0.0458b	ppb	0.0782	170.8	39.3287
Co 228.615	0.2593b	ppb	0.4186	161.4	10.9995
Cr 267.716	0.0187b	ppb	0.1464	780.9	21.0813
Cu 324.754	0.2444b	ppb	0.2012	82.3	274.757
Fe 271.441	251.729b	ppb	1.4280	0.6	577.397
K 766.491	333.577b	ppb	0.9860	0.3	13226.5
Mg 279.078	361.193b	ppb	3.1869	0.9	880.538
Mn 257.610	17.2192b	ppb	0.0264	0.2	4680.55
Mo 202.032	-0.1928b	ppb	0.1623	84.2	15.2893
Na 330.237	125540xb	ppb	573.574	0.5	6915.43
Ni 231.604	1.0517b	ppb	0.5392	51.3	-2.5728
Pb 220.353	7.0426b	ppb	1.7245	24.5	46.2891
Sb 206.834	4.7705b	ppb	1.5277	32.0	9.5271
Se 196.026	4.3022b	ppb	4.6853	108.9	14.1485
Sn 189.925	2.0250b	ppb	2.1998	108.6	-10.3740
Sr 216.596	4.2181b	ppb	0.1832	4.3	74.8225
Ti 334.941	0.0255b	ppb	0.0054	21.3	-42.8288
Tl 190.794	-0.6160b	ppb	0.8104	131.6	-16.4130
V 292.401	-0.1696b	ppb	0.0420	24.7	-14.6560
Zn 206.200	41.8075b	ppb	0.7250	1.7	672760

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**680-89727-a-1-g (Samp)**                      **5/7/2013, 4:54:53 PM**                      **Rack 1, Tube 8**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3957u	-0.2697u	-0.3331u
Al 308.215	25.4175	25.6519	24.5385
As 188.980	2.8682	-6.2400u	1.6652
B 249.678	14.4315	13.7918	13.2878
Ba 389.178	13.7631	13.0266	13.4277
Be 313.042	-0.0047u	0.0017u	-0.0072u
Ca 370.602	15237	15239	15171
Cd 226.502	0.1645	0.1757	0.0219
Co 228.615	0.1356	0.2107	0.5698
Cr 267.716	-0.2537u	-0.0341	-0.1199u
Cu 324.754	0.4990	0.6775	0.5987
Fe 271.441	0.8834	4.9472	1.9554
K 766.491	703.478	702.665	699.232
Mg 279.078	535.150	537.438	535.814
Mn 257.610	22.9360	23.0190	22.9605
Mo 202.032	0.8025	-0.1252u	0.2136
Na 330.237	122397x	122423x	122196x
Ni 231.604	1.1072	1.4721	0.6903
Pb 220.353	0.0036	3.2425	0.6763
Sb 206.834	-0.0834u	1.9060	0.7899
Se 196.026	1.4393	0.2798	-1.0508u
Sn 189.925	1.7751	-1.1336u	2.8275
Sr 216.596	53.0977	54.2446	52.5967
Ti 334.941	0.0257	0.0223u	0.0351
Tl 190.794	1.0952	-0.3417u	0.1186
V 292.401	-0.1587u	-0.2802u	0.1535
Zn 206.200	3.7506	4.7360	3.8009

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3328b	ppb	0.0630	18.9	-50.4270
Al 308.215	25.2026b	ppb	0.5870	2.3	189.259
As 188.980	-0.5689b	ppb	4.9480	869.8	-6.9003
B 249.678	13.8370b	ppb	0.5732	4.1	334.256
Ba 389.178	13.4058b	ppb	0.3687	2.8	318.419
Be 313.042	-0.0034b	ppb	0.0046	134.9	-392.493
Ca 370.602	15216b	ppb	38.68	0.3	48896
Cd 226.502	0.1207b	ppb	0.0857	71.0	41.5338
Co 228.615	0.3054b	ppb	0.2321	76.0	11.6272
Cr 267.716	-0.1359b	ppb	0.1107	81.5	12.8117
Cu 324.754	0.5918b	ppb	0.0895	15.1	291.078
Fe 271.441	2.5953b	ppb	2.1061	81.2	112.637
K 766.491	701.792b	ppb	2.2536	0.3	27417.4
Mg 279.078	536.134b	ppb	1.1770	0.2	1288.02
Mn 257.610	22.9718b	ppb	0.0426	0.2	6219.54
Mo 202.032	0.2969b	ppb	0.4694	158.1	19.3066
Na 330.237	122339xb	ppb	124.334	0.1	6741.20
Ni 231.604	1.0899b	ppb	0.3912	35.9	-2.4605
Pb 220.353	1.3075b	ppb	1.7092	130.7	34.3661
Sb 206.834	0.8708b	ppb	0.9972	114.5	4.7012
Se 196.026	0.2227b	ppb	1.2460	559.4	11.8921
Sn 189.925	1.1563b	ppb	2.0518	177.4	-11.2496
Sr 216.596	53.3130b	ppb	0.8448	1.6	707.815
Ti 334.941	0.0277b	ppb	0.0066	24.0	-41.0557
Tl 190.794	0.2907b	ppb	0.7337	252.4	-15.4013
V 292.401	-0.0951b	ppb	0.2237	235.2	-12.4618
Zn 206.200	4.0959b	ppb	0.5550	13.5	357.680

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**680-89727-a-1-gSD^5 (Samp) 5/7/2013, 5:00:19 PM Rack 1, Tube 9****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3287u	-0.1750u	0.0368
Al 308.215	7.9293	2.8859	5.8411
As 188.980	-2.5517u	8.3356	-0.5635u
B 249.678	2.7102	2.3794	2.5270
Ba 389.178	2.6224	2.4264	2.1664
Be 313.042	-0.0077u	-0.0029u	-0.0069u
Ca 370.602	3167	3048	3005
Cd 226.502	-0.0018u	0.0784	-0.0961u
Co 228.615	-0.0580u	0.2134	0.3580
Cr 267.716	-0.1247u	-0.2654u	-0.2707u
Cu 324.754	0.4883	0.4798	0.5521
Fe 271.441	-0.2431u	-4.4511u	-3.6390u
K 766.491	129.944	125.120	123.547
Mg 279.078	114.057	106.486	105.358
Mn 257.610	7.9635	7.6116	7.5295
Mo 202.032	-0.0876u	-0.0649u	-0.2100u
Na 330.237	24108.5	23143.0	22795.5
Ni 231.604	0.3575	0.8058	-0.2396u
Pb 220.353	2.7527	1.3032	1.4952
Sb 206.834	2.0293	-0.0809u	0.6813
Se 196.026	3.5695	-1.1131u	-6.5761u
Sn 189.925	0.0698	0.1081	0.2895
Sr 216.596	11.4596	10.5190	10.8655
Ti 334.941	0.0363	0.0070	0.0011u
Tl 190.794	1.1151	-0.4335u	-0.3712u
V 292.401	-0.3211u	-0.1424u	-0.4164u
Zn 206.200	2.1581	0.1423	2.1097

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1556	ppb	0.1835	117.9	-34.0946
Al 308.215	5.5521	ppb	2.5341	45.6	98.0635
As 188.980	1.7401	ppb	5.7977	333.2	-5.8735
B 249.678	2.5389	ppb	0.1658	6.5	181.458
Ba 389.178	2.4051	ppb	0.2288	9.5	61.6994
Be 313.042	-0.0059	ppb	0.0026	43.8	-389.782
Ca 370.602	3074	ppb	83.67	2.7	9884
Cd 226.502	-0.0065	ppb	0.0873	1345.5	36.8481
Co 228.615	0.1711	ppb	0.2112	123.4	9.8193
Cr 267.716	-0.2203	ppb	0.0828	37.6	6.3390
Cu 324.754	0.5067	ppb	0.0395	7.8	287.063
Fe 271.441	-2.7777	ppb	2.2323	80.4	102.589
K 766.491	126.203	ppb	3.3336	2.6	5234.41
Mg 279.078	108.634	ppb	4.7306	4.4	292.160
Mn 257.610	7.7015	ppb	0.2305	3.0	2133.64
Mo 202.032	-0.1208	ppb	0.0780	64.6	15.8922
Na 330.237	23349.0	ppb	680.320	2.9	1342.39
Ni 231.604	0.3079	ppb	0.5245	170.3	-4.8872
Pb 220.353	1.8504	ppb	0.7873	42.5	35.4906
Sb 206.834	0.8766	ppb	1.0685	121.9	4.7096
Se 196.026	-1.3732	ppb	5.0778	369.8	11.0051
Sn 189.925	0.1558	ppb	0.1174	75.3	-12.3142
Sr 216.596	10.9480	ppb	0.4757	4.3	161.481
Ti 334.941	0.0148	ppb	0.0189	127.7	-38.6530
Tl 190.794	0.1035	ppb	0.8767	847.3	-15.5841
V 292.401	-0.2933	ppb	0.1391	47.4	-17.3949
Zn 206.200	1.4700	ppb	1.1501	78.2	337.4869

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**680-89727-a-1-gPDS (Samp) 5/7/2013, 5:05:45 PM Rack 1, Tube 10****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	44.8853	45.0536	45.0758
Al 308.215	1980.72	1973.11	1985.91
As 188.980	2154.20	2139.44	2166.13
B 249.678	1000.12	1005.30	1013.97
Ba 389.178	2083.94	2084.53	2089.83
Be 313.042	50.8760	50.8035	51.0594
Ca 370.602	20120	20100	20166
Cd 226.502	52.7718	52.9759	52.9108
Co 228.615	532.395	529.756	530.799
Cr 267.716	206.840	206.347	207.474
Cu 324.754	257.392	257.257	258.377
Fe 271.441	983.740	992.171	987.052
K 766.491	6660.83	6673.40	6701.72
Mg 279.078	5547.10	5529.68	5560.98
Mn 257.610	557.530	557.269	558.777
Mo 202.032	521.888	522.085	524.586
Na 330.237	124704x	125244x	124718x
Ni 231.604	520.558	515.844	518.997
Pb 220.353	499.046	496.475	499.697
Sb 206.834	494.460	489.042	503.036
Se 196.026	2039.59	2024.09	2047.63
Sn 189.925	1017.42	1029.05	1028.99
Sr 216.596	573.827	576.365	579.112
Ti 334.941	994.219	994.622	999.014
Tl 190.794	2069.11	2054.17	2070.89
V 292.401	497.210	497.083	499.303
Zn 206.200	525.667	526.677	528.367

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	45.0049b	ppb	0.1042	0.2	3596.86
Al 308.215	1979.91b	ppb	6.4372	0.3	9308.09
As 188.980	2153.26b	ppb	13.3677	0.6	1024.99
B 249.678	1006.46b	ppb	6.9975	0.7	13757.9
Ba 389.178	2086.10b	ppb	3.2484	0.2	48493.0
Be 313.042	50.9130b	ppb	0.1319	0.3	96199.5
Ca 370.602	20129b	ppb	34.29	0.2	64803
Cd 226.502	52.8862b	ppb	0.1043	0.2	2233.03
Co 228.615	530.983b	ppb	1.3289	0.3	7193.43
Cr 267.716	206.887b	ppb	0.5652	0.3	10948.7
Cu 324.754	257.675b	ppb	0.6112	0.2	12429.7
Fe 271.441	987.654b	ppb	4.2479	0.4	2045.02
K 766.491	6678.65b	ppb	20.9460	0.3	257763
Mg 279.078	5545.92b	ppb	15.6869	0.3	12951.7
Mn 257.610	557.859b	ppb	0.8063	0.1	149264
Mo 202.032	522.853b	ppb	1.5038	0.3	4290.05
Na 330.237	124889xb	ppb	307.522	0.2	6867.55
Ni 231.604	518.466b	ppb	2.4014	0.5	1603.01
Pb 220.353	498.406b	ppb	1.7035	0.3	1066.37
Sb 206.834	495.513b	ppb	7.0561	1.4	609.850
Se 196.026	2037.10b	ppb	11.9663	0.6	1138.65
Sn 189.925	1025.15b	ppb	6.6982	0.7	1027.91
Sr 216.596	576.435b	ppb	2.6437	0.5	7404.25
Ti 334.941	995.952b	ppb	2.6598	0.3	306050
Tl 190.794	2064.72b	ppb	9.1815	0.4	2276.69
V 292.401	497.865b	ppb	1.2468	0.3	14474.5
Zn 206.200	526.904b	ppb	1.3638	0.3	857.546

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**680-89727-a-1-h ms (Samp)**      **5/7/2013, 5:11:12 PM**      **Rack 1, Tube 11**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	69.1963	69.4271	69.2240
Al 308.215	842.669	841.779	849.398
As 188.980	94.2627	85.7993	81.7531
B 249.678	182.295	181.890	181.569
Ba 389.178	93.4108	93.3583	92.9481
Be 313.042	84.1441	83.7933	84.0351
Ca 370.602	20539	20474	20586
Cd 226.502	86.1378	85.9273	86.1727
Co 228.615	85.7803	85.1411	85.1596
Cr 267.716	85.3488	84.7239	85.0141
Cu 324.754	84.8708	84.7695	84.8604
Fe 271.441	8089.41	8080.72	8097.99
K 766.491	9862.81	9817.26	9843.25
Mg 279.078	8437.72	8430.45	8464.94
Mn 257.610	900.066	896.734	898.357
Mo 202.032	82.6341	81.6131	82.1809
Na 330.237	106441x	105905x	106669x
Ni 231.604	85.3861	87.3609	83.7098
Pb 220.353	83.0177	83.5484	83.3249
Sb 206.834	81.9781	79.1770	86.8902
Se 196.026	89.9503	81.5118	78.8662
Sn 189.925	82.1028	82.6652	82.2036
Sr 216.596	125.995	125.901	126.825
Ti 334.941	81.4255	80.8824	80.9124
Tl 190.794	17.8233	16.9076	17.1249
V 292.401	82.4792	82.3250	82.3808
Zn 206.200	88.7619	91.7755	91.5488

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	69.2825b	ppb	0.1261	0.2	5581.04
Al 308.215	844.615b	ppb	4.1658	0.5	3999.04
As 188.980	87.2717b	ppb	6.3835	7.3	35.1414
B 249.678	181.918b	ppb	0.3639	0.2	2596.64
Ba 389.178	93.2390b	ppb	0.2533	0.3	2206.12
Be 313.042	83.9908b	ppb	0.1795	0.2	159103
Ca 370.602	20533b	ppb	56.49	0.3	65357
Cd 226.502	86.0793b	ppb	0.1328	0.2	3635.62
Co 228.615	85.3603b	ppb	0.3638	0.4	1160.33
Cr 267.716	85.0289b	ppb	0.3127	0.4	4516.30
Cu 324.754	84.8336b	ppb	0.0558	0.1	4269.31
Fe 271.441	8089.38b	ppb	8.6363	0.1	15214.1
K 766.491	9841.11b	ppb	22.8480	0.2	379643
Mg 279.078	8444.37b	ppb	18.1809	0.2	19701.2
Mn 257.610	898.386b	ppb	1.6662	0.2	240349
Mo 202.032	82.1427b	ppb	0.5115	0.6	687.758
Na 330.237	106338xb	ppb	392.472	0.4	5864.20
Ni 231.604	85.4856b	ppb	1.8276	2.1	259.622
Pb 220.353	83.2970b	ppb	0.2665	0.3	204.868
Sb 206.834	82.6818b	ppb	3.9044	4.7	106.418
Se 196.026	83.4428b	ppb	5.7888	6.9	58.2165
Sn 189.925	82.3239b	ppb	0.2998	0.4	71.1154
Sr 216.596	126.240b	ppb	0.5088	0.4	1646.15
Ti 334.941	81.0734b	ppb	0.3053	0.4	24907.5
Tl 190.794	17.2852b	ppb	0.4785	2.8	1.6416
V 292.401	82.3950b	ppb	0.0781	0.1	2383.79
Zn 206.200	90.6954b	ppb	1.6782	1.8	347.588

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**680-89727-a-1-i msd (Samp) 5/7/2013, 5:16:38 PM Rack 1, Tube 12****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	60.6048	61.2229	60.8445
Al 308.215	813.563	813.184	817.522
As 188.980	76.1151	86.4375	87.6477
B 249.678	167.942	168.814	167.919
Ba 389.178	90.1119	90.5592	90.3625
Be 313.042	80.9912	80.9283	80.7146
Ca 370.602	19920	19931	19937
Cd 226.502	82.5105	82.7566	82.5540
Co 228.615	82.1013	82.0794	81.9294
Cr 267.716	81.6653	81.9891	81.5696
Cu 324.754	81.6593	82.3528	81.0763
Fe 271.441	7792.93	7798.59	7778.15
K 766.491	9414.36	9450.96	9400.07
Mg 279.078	8100.47	8133.73	8119.49
Mn 257.610	862.433	864.785	862.975
Mo 202.032	79.3378	78.5645	80.2587
Na 330.237	102981x	103362x	103276x
Ni 231.604	80.7139	83.1330	82.2804
Pb 220.353	79.5973	78.8356	78.3077
Sb 206.834	77.5728	76.1305	80.5481
Se 196.026	85.0018	79.7887	83.1061
Sn 189.925	76.7882	77.3108	80.4935
Sr 216.596	122.281	123.001	122.298
Ti 334.941	78.0756	78.0852	77.7370
Tl 190.794	16.8102	15.9008	15.2019
V 292.401	79.0610	79.3451	78.9070
Zn 206.200	86.0698	85.7954	85.8778

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	60.8907b	ppb	0.3116	0.5	4902.36
Al 308.215	814.756b	ppb	2.4025	0.3	3860.23
As 188.980	83.4001b	ppb	6.3380	7.6	33.2854
B 249.678	168.225b	ppb	0.5105	0.3	2411.86
Ba 389.178	90.3445b	ppb	0.2242	0.2	2137.54
Be 313.042	80.8781b	ppb	0.1450	0.2	153192
Ca 370.602	19929b	ppb	8.303	0.0	63442
Cd 226.502	82.6070b	ppb	0.1314	0.2	3490.51
Co 228.615	82.0367b	ppb	0.0936	0.1	1115.42
Cr 267.716	81.7414b	ppb	0.2198	0.3	4342.38
Cu 324.754	81.6961b	ppb	0.6391	0.8	4121.15
Fe 271.441	7789.89b	ppb	10.5535	0.1	14654.8
K 766.491	9421.79b	ppb	26.2488	0.3	363483
Mg 279.078	8117.89b	ppb	16.6858	0.2	18941.0
Mn 257.610	863.397b	ppb	1.2318	0.1	230991
Mo 202.032	79.3870b	ppb	0.8482	1.1	665.255
Na 330.237	103206xb	ppb	199.896	0.2	5693.56
Ni 231.604	82.0424b	ppb	1.2269	1.5	248.930
Pb 220.353	78.9135b	ppb	0.6484	0.8	195.752
Sb 206.834	78.0838b	ppb	2.2527	2.9	100.709
Se 196.026	82.6322b	ppb	2.6386	3.2	57.7564
Sn 189.925	78.1975b	ppb	2.0055	2.6	66.9262
Sr 216.596	122.527b	ppb	0.4109	0.3	1598.33
Ti 334.941	77.9659b	ppb	0.1983	0.3	23951.1
Tl 190.794	15.9710b	ppb	0.8064	5.0	0.2544
V 292.401	79.1044b	ppb	0.2223	0.3	2288.14
Zn 206.200	85.9143b	ppb	0.1408	0.2	139.769

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Verif (CCV) 5/7/2013, 5:22:04 PM Rack 1, Tube 13  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	491.875	485.978	494.019
Al 308.215	4863.28	4870.56	4867.21
As 188.980	507.007	500.378	497.509
B 249.678	502.951	501.245	506.021
Ba 389.178	5105.93	5091.04	5098.61
Be 313.042	513.165	510.209	510.309
Ca 370.602	5009	4994	5002
Cd 226.502	516.076	513.383	517.010
Co 228.615	520.252	517.917	521.357
Cr 267.716	5139.04	5118.65	5129.61
Cu 324.754	4961.55	4969.60	5020.26
Fe 271.441	4929.87	4916.16	4937.38
K 766.491	10116.2	10112.4	10093.7
Mg 279.078	4932.79	4914.68	4938.55
Mn 257.610	5238.26	5231.68	5249.95
Mo 202.032	499.301	498.578	500.211
Na 330.237	7007.58	7159.56	7056.36
Ni 231.604	2599.96	2585.19	2593.77
Pb 220.353	492.286	486.653	493.141
Sb 206.834	969.320	964.467	969.864
Se 196.026	4924.49	4904.37	4940.00
Sn 189.925	5028.11	4975.19	5013.30
Sr 216.596	2514.98	2496.56	2510.48
Ti 334.941	494.051	491.842	493.348
Tl 190.794	5015.30	4989.50	5016.47
V 292.401	4947.39	4935.83	4951.71
Zn 206.200	2599.12	2578.77	2588.23

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	490.624	ppb	4.1643	0.8	39596.0	98.12480
Al 308.215	4867.02	ppb	3.6437	0.1	22638.2	97.34031
As 188.980	501.631	ppb	4.8712	1.0	233.512	100.32628
B 249.678	503.406	ppb	2.4201	0.5	6948.85	20.13622Q
Ba 389.178	5098.53	ppb	7.4471	0.1	118496	101.97054
Be 313.042	511.228	ppb	1.6786	0.3	970206	102.24556
Ca 370.602	5002	ppb	7.867	0.2	15957	100.03209
Cd 226.502	515.490	ppb	1.8833	0.4	21427.7	103.09792
Co 228.615	519.842	ppb	1.7563	0.3	7043.64	103.96841
Cr 267.716	5129.10	ppb	10.2027	0.2	270950	102.58201
Cu 324.754	4983.80	ppb	31.8301	0.6	235372	99.67606
Fe 271.441	4927.80	ppb	10.7609	0.2	9439.27	98.55606
K 766.491	10107.5	ppb	12.0453	0.1	389908	101.07458
Mg 279.078	4928.67	ppb	12.4531	0.3	11430.3	98.57346
Mn 257.610	5239.96	ppb	9.2537	0.2	1400961	104.79924
Mo 202.032	499.363	ppb	0.8186	0.2	4088.34	99.87268
Na 330.237	7074.50	ppb	77.5970	1.1	428.479	94.32668
Ni 231.604	2592.97	ppb	7.4191	0.3	8040.42	103.71893
Pb 220.353	490.693	ppb	3.5249	0.7	1052.05	98.13866
Sb 206.834	967.884	ppb	2.9715	0.3	1258.53	96.78838
Se 196.026	4922.95	ppb	17.8645	0.4	2736.14	98.45905
Sn 189.925	5005.54	ppb	27.3049	0.5	5067.17	100.11070
Sr 216.596	2507.34	ppb	9.6062	0.4	32198.7	100.29368
Ti 334.941	493.080	ppb	1.1287	0.2	151516	98.61604
Tl 190.794	5007.09	ppb	15.2408	0.3	5539.01	100.14180
V 292.401	4944.98	ppb	8.2110	0.2	144472	98.89952
Zn 206.200	2588.71	ppb	10.1824	0.4	4293.58	103.54823



E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Blank (CCB)                      5/7/2013, 5:27:27 PM                      Rack 1, Tube 14  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2722u	0.2398	-0.0192u
Al 308.215	-2.8448u	-1.6980u	-3.1799u
As 188.980	0.7400	-0.2568u	-1.9183u
B 249.678	11.2217	11.1017	9.6438
Ba 389.178	-0.2306u	0.5579	-0.2247u
Be 313.042	-0.0047u	-0.0028u	0.0123
Ca 370.602	0.3253	0.7594	0.3027
Cd 226.502	-0.0592u	-0.0661u	-0.2832u
Co 228.615	-0.3189u	-0.0299u	0.2894
Cr 267.716	-0.1115u	0.1140	-0.0995u
Cu 324.754	0.1514	0.3179	-0.3404u
Fe 271.441	3.7646	-3.4919u	-8.1411u
K 766.491	-1.5657u	-1.7898u	-1.1700u
Mg 279.078	-4.4939u	0.7668	-1.5396u
Mn 257.610	-0.0835u	-0.0131u	-0.0024u
Mo 202.032	0.0211	0.5523	0.3044
Na 330.237	-94.5346u	-71.7344u	-129.970u
Ni 231.604	0.7472	1.2274	0.1816
Pb 220.353	-0.0533u	0.5643	0.4967
Sb 206.834	7.9081	7.6743	5.7331
Se 196.026	6.6873	3.1733	1.0599
Sn 189.925	2.8585	-0.8240u	2.0777
Sr 216.596	-0.1338u	-0.2690u	0.0199
Ti 334.941	0.0470	0.1151	0.0858
Tl 190.794	-0.5522u	0.6031	-0.7287u
V 292.401	0.1331	0.2527	-0.0944u
Zn 206.200	1.8334	0.5785	1.3973

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0172	ppb	0.2560	1486.4	-22.3977	-0.01722
Al 308.215	-2.5742	ppb	0.7771	30.2	60.3851	-2.57424
As 188.980	-0.4784	ppb	1.3429	280.7	-6.9567	-0.47836
B 249.678	10.6557	ppb	0.8784	8.2	291.234	10.65572
Ba 389.178	0.0342	ppb	0.4535	1326.3	6.3279	0.03420
Be 313.042	0.0016	ppb	0.0093	592.5	-374.062	0.00157
Ca 370.602	0.4625	ppb	0.2574	55.7	9.309	0.46246
Cd 226.502	-0.1362	ppb	0.1274	93.6	31.6215	-0.13617
Co 228.615	-0.0198	ppb	0.3043	1538.0	7.2276	-0.01978
Cr 267.716	-0.0323	ppb	0.1269	392.3	15.7677	-0.03234
Cu 324.754	0.0430	ppb	0.3423	796.8	265.186	0.04296
Fe 271.441	-2.6228	ppb	6.0002	228.8	102.851	-2.62279
K 766.491	-1.5085	ppb	0.3138	20.8	312.440	-1.50850
Mg 279.078	-1.7556	ppb	2.6370	150.2	35.0753	-1.75555
Mn 257.610	-0.0330	ppb	0.0441	133.4	64.9811	-0.03303
Mo 202.032	0.2926	ppb	0.2658	90.8	19.2708	0.29259
Na 330.237	-98.7462	ppb	29.3451	29.7	63.5659	-98.74622
Ni 231.604	0.7187	ppb	0.5235	72.8	-3.6124	0.71872
Pb 220.353	0.3359	ppb	0.3388	100.8	32.3389	0.33591
Sb 206.834	7.1052	ppb	1.1940	16.8	12.3964	7.10518
Se 196.026	3.6402	ppb	2.8426	78.1	13.7759	3.64016
Sn 189.925	1.3708	ppb	1.9404	141.6	-11.0930	1.37075
Sr 216.596	-0.1276	ppb	0.1445	113.2	18.6180	-0.12765
Ti 334.941	0.0826	ppb	0.0342	41.3	-16.3419	0.08264
Tl 190.794	-0.2259	ppb	0.7234	320.2	-15.9374	-0.22593
V 292.401	0.0971	ppb	0.1763	181.5	-5.8341	0.09712
Zn 206.200	1.2697	ppb	0.6371	50.2	317.1600	1.26974

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89727-a-20-e (Samp) 5/7/2013, 5:32:51 PM Rack 1, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3797u	0.0233u	-0.2588u
Al 308.215	5.4066	4.7477	3.5066
As 188.980	3.5257	-2.9836u	1.0877
B 249.678	22.4930	23.1933	23.0230
Ba 389.178	14.3359	14.8041	13.8583
Be 313.042	-0.0215u	-0.0239u	-0.0244u
Ca 370.602	65544	65523	65516
Cd 226.502	-0.0456u	0.1119	0.0026u
Co 228.615	0.1331	-0.5471u	0.6301
Cr 267.716	-0.0920u	-0.3636u	-0.0064
Cu 324.754	0.6917	0.3236	0.5860
Fe 271.441	4.5997	-1.5336u	5.7669
K 766.491	313.279	313.731	312.368
Mg 279.078	742.149	748.739	747.332
Mn 257.610	50.7008	50.8758	50.6479
Mo 202.032	0.1271	0.1166	0.0492
Na 330.237	127823x	127966x	127596x
Ni 231.604	-0.1610u	1.6250	0.4479
Pb 220.353	-0.1615u	-1.3807u	2.1385
Sb 206.834	4.9869	-2.8816u	0.1005
Se 196.026	0.4565	-1.0777u	0.0817
Sn 189.925	1.3525	0.9809	-1.7083u
Sr 216.596	59.0812	59.1291	59.2508
Ti 334.941	0.1859	0.1998	0.1237
Tl 190.794	-0.9181u	-0.6976u	-1.3830u
V 292.401	-0.0027u	-0.1050u	-0.4516u
Zn 206.200	1.4391	1.3599	3.5022

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2051b	ppb	0.2068	100.8	-40.3926
Al 308.215	4.5537b	ppb	0.9648	21.2	93.4311
As 188.980	0.5433b	ppb	3.2886	605.4	-6.0371
B 249.678	22.9031b	ppb	0.3652	1.6	456.871
Ba 389.178	14.3328b	ppb	0.4729	3.3	340.510
Be 313.042	-0.0233b	ppb	0.0015	6.6	-413.209
Ca 370.602	65528b	ppb	14.35	0.0	210548
Cd 226.502	0.0229b	ppb	0.0807	351.6	37.4517
Co 228.615	0.0720b	ppb	0.5910	820.4	8.4837
Cr 267.716	-0.1540b	ppb	0.1865	121.1	12.0938
Cu 324.754	0.5338b	ppb	0.1895	35.5	288.341
Fe 271.441	2.9443b	ppb	3.9217	133.2	113.251
K 766.491	313.126b	ppb	0.6945	0.2	12438.3
Mg 279.078	746.073b	ppb	3.4704	0.5	1776.72
Mn 257.610	50.7415b	ppb	0.1193	0.2	13646.1
Mo 202.032	0.0976b	ppb	0.0422	43.3	17.6772
Na 330.237	127795xb	ppb	186.494	0.1	7038.81
Ni 231.604	0.6373b	ppb	0.9079	142.5	-3.8650
Pb 220.353	0.1988b	ppb	1.7871	899.1	32.0681
Sb 206.834	0.7353b	ppb	3.9725	540.3	4.5358
Se 196.026	-0.1798b	ppb	0.7998	444.8	11.6772
Sn 189.925	0.2083b	ppb	1.6702	801.7	-12.1834
Sr 216.596	59.1537b	ppb	0.0875	0.1	789.092
Ti 334.941	0.1698b	ppb	0.0405	23.8	3.2167
Tl 190.794	-0.9996b	ppb	0.3499	35.0	-16.8795
V 292.401	-0.1864b	ppb	0.2353	126.2	-15.1475
Zn 206.200	2.1004b	ppb	1.2146	57.8	375150

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**680-89727-a-2-e (Samp)**                      **5/7/2013, 5:38:15 PM**                      **Rack 1, Tube 16**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0500u	-0.2201u	-0.3598u
Al 308.215	30.0245	28.8542	30.8649
As 188.980	1.3368	3.2412	-5.0568u
B 249.678	41.2836	41.1941	40.3381
Ba 389.178	18.1613	17.1828	18.1069
Be 313.042	0.0092	0.0041u	-0.0016u
Ca 370.602	5337	5393	5358
Cd 226.502	0.1763	-0.0345u	-0.0331u
Co 228.615	0.4240	0.2566	-0.1432u
Cr 267.716	-0.0027	-0.1910u	-0.2370u
Cu 324.754	0.2543	0.4664	0.4050
Fe 271.441	6.0684	-1.5037u	0.6236
K 766.491	203.138	203.274	203.255
Mg 279.078	174.940	177.382	178.960
Mn 257.610	11.2331	11.2489	11.2514
Mo 202.032	-0.1600u	0.3493	-0.3548u
Na 330.237	118373x	119482x	119172x
Ni 231.604	0.2127	2.3086	-0.0276u
Pb 220.353	-0.2529u	0.2139	0.5731
Sb 206.834	-1.9221u	2.6387	1.4024
Se 196.026	2.7136	-4.4607u	-5.1272u
Sn 189.925	-1.8448u	-0.7444u	0.0926
Sr 216.596	13.9568	14.4188	14.7835
Ti 334.941	0.0349	-0.0013u	0.0037u
Tl 190.794	-0.0086u	-1.4043u	-3.1313u
V 292.401	0.0635	-0.1722u	-0.3018u
Zn 206.200	10.5677	11.0487	10.6928

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2100b	ppb	0.1552	73.9	-38.6437
Al 308.215	29.9145b	ppb	1.0099	3.4	211.125
As 188.980	-0.1596b	ppb	4.3467	2723.5	-6.7687
B 249.678	40.9386b	ppb	0.5220	1.3	700.800
Ba 389.178	17.8170b	ppb	0.5499	3.1	419.962
Be 313.042	0.0039b	ppb	0.0054	138.1	-381.651
Ca 370.602	5362b	ppb	28.24	0.5	17237
Cd 226.502	0.0363b	ppb	0.1213	334.6	38.0401
Co 228.615	0.1792b	ppb	0.2914	162.7	9.9213
Cr 267.716	-0.1436b	ppb	0.1242	86.5	12.2847
Cu 324.754	0.3752b	ppb	0.1091	29.1	280.863
Fe 271.441	1.7294b	ppb	3.9053	225.8	111.000
K 766.491	203.222b	ppb	0.0733	0.0	8202.69
Mg 279.078	177.094b	ppb	2.0257	1.1	451.611
Mn 257.610	11.2445b	ppb	0.0099	0.1	3080.88
Mo 202.032	-0.0552b	ppb	0.3636	659.3	16.4285
Na 330.237	119009xb	ppb	572.070	0.5	6559.54
Ni 231.604	0.8312b	ppb	1.2851	154.6	-3.2632
Pb 220.353	0.1780b	ppb	0.4142	232.7	32.0147
Sb 206.834	0.7063b	ppb	2.3588	333.9	4.4979
Se 196.026	-2.2914b	ppb	4.3473	189.7	10.4983
Sn 189.925	-0.8322b	ppb	0.9717	116.8	-13.2741
Sr 216.596	14.3864b	ppb	0.4143	2.9	205.973
Ti 334.941	0.0125b	ppb	0.0196	157.4	-47.2216
Tl 190.794	-1.5147b	ppb	1.5643	103.3	-17.3872
V 292.401	-0.1368b	ppb	0.1852	135.4	-13.6620
Zn 206.200	10.7698b	ppb	0.2496	2.3	157.6482

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89727-a-3-e (Samp)                      5/7/2013, 5:43:39 PM                      Rack 1, Tube 17  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1156u	-0.2733u	-0.1404u
Al 308.215	25.9936	25.6106	24.2515
As 188.980	-0.8758u	-2.8783u	2.2691
B 249.678	51.8440	51.9945	52.2770
Ba 389.178	18.9048	17.7878	17.9807
Be 313.042	0.0120	0.0065	-0.0035u
Ca 370.602	14283	14266	14247
Cd 226.502	0.1218	-0.0200u	-0.1074u
Co 228.615	0.5359	0.1652	0.3412
Cr 267.716	0.2279	-0.0201	-0.0823u
Cu 324.754	0.3490	0.8131	0.6207
Fe 271.441	-0.2446u	-0.8147u	-4.1660u
K 766.491	176.096	175.218	175.370
Mg 279.078	524.706	523.738	523.005
Mn 257.610	46.7685	46.5921	46.5159
Mo 202.032	-0.8721u	-0.2185u	0.0851
Na 330.237	117302x	116413x	116578x
Ni 231.604	1.7622	1.6931	1.7498
Pb 220.353	0.7211	2.9955	3.1283
Sb 206.834	3.1765	2.7028	-1.3257u
Se 196.026	-1.1519u	-3.9057u	-3.4400u
Sn 189.925	-0.9083u	-0.6352u	0.8526
Sr 216.596	55.1008	54.6431	54.7764
Ti 334.941	0.0429	-0.0169u	0.0095u
Tl 190.794	-1.5668u	-1.1847u	-1.4313u
V 292.401	-0.3574u	-0.4050u	-0.3969u
Zn 206.200	2.4600	1.6891	1.4263

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1764b	ppb	0.0848	48.1	-37.7619
Al 308.215	25.2852b	ppb	0.9155	3.6	189.599
As 188.980	-0.4950b	ppb	2.5947	524.2	-6.8710
B 249.678	52.0385b	ppb	0.2198	0.4	850.925
Ba 389.178	18.2245b	ppb	0.5971	3.3	430.333
Be 313.042	0.0050b	ppb	0.0079	157.6	-376.150
Ca 370.602	14265b	ppb	18.17	0.1	45844
Cd 226.502	-0.0019b	ppb	0.1157	6239.7	36.4738
Co 228.615	0.3474b	ppb	0.1854	53.4	12.2138
Cr 267.716	0.0418b	ppb	0.1641	392.6	22.2058
Cu 324.754	0.5943b	ppb	0.2332	39.2	291.186
Fe 271.441	-1.7418b	ppb	2.1187	121.6	104.551
K 766.491	175.561b	ppb	0.4693	0.3	7136.65
Mg 279.078	523.816b	ppb	0.8536	0.2	1258.90
Mn 257.610	46.6255b	ppb	0.1296	0.3	12542.9
Mo 202.032	-0.3352b	ppb	0.4892	145.9	14.1398
Na 330.237	116764xb	ppb	473.277	0.4	6437.21
Ni 231.604	1.7351b	ppb	0.0368	2.1	-0.4586
Pb 220.353	2.2816b	ppb	1.3531	59.3	36.3987
Sb 206.834	1.5179b	ppb	2.4740	163.0	5.5096
Se 196.026	-2.8325b	ppb	1.4740	52.0	10.2088
Sn 189.925	-0.2303b	ppb	0.9477	411.5	-12.6596
Sr 216.596	54.8401b	ppb	0.2354	0.4	727.356
Ti 334.941	0.0118b	ppb	0.0300	253.5	-45.5080
Tl 190.794	-1.3943b	ppb	0.1937	13.9	-17.3108
V 292.401	-0.3864b	ppb	0.0255	6.6	-20.8698
Zn 206.200	1.8585b	ppb	0.5372	28.9	37.1195

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89727-a-4-d (Samp) 5/7/2013, 5:49:04 PM Rack 1, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1151u	-0.1100u	-0.3382u
Al 308.215	25.1081	23.3385	24.6478
As 188.980	5.1244	2.0009	-0.6707u
B 249.678	33.8204	33.8761	34.3873
Ba 389.178	21.1225	20.2671	19.7516
Be 313.042	0.0139	0.0046u	0.0062u
Ca 370.602	556.5	559.8	547.3
Cd 226.502	-0.1094u	-0.0914u	-0.2020u
Co 228.615	0.5416	0.6714	-0.2097u
Cr 267.716	-0.0629u	-0.1563u	-0.1817u
Cu 324.754	0.7774	0.5751	0.0122
Fe 271.441	-0.4505u	-5.8771u	-0.4544u
K 766.491	144.375	144.558	144.169
Mg 279.078	113.832	110.307	112.000
Mn 257.610	16.8492	16.9749	16.7794
Mo 202.032	-0.2565u	0.0429	-0.5482u
Na 330.237	116502x	116320x	115975x
Ni 231.604	1.2712	-0.3350u	1.1514
Pb 220.353	-2.6142u	3.0022	-0.3007u
Sb 206.834	0.1296	-2.5832u	1.2620
Se 196.026	-3.5091u	-1.5699u	-1.8378u
Sn 189.925	-5.0667u	4.0059	0.2685
Sr 216.596	3.2623	3.6586	2.9739
Ti 334.941	-0.0547u	-0.0202u	-0.0264u
Tl 190.794	2.2675	2.5597	-2.6189u
V 292.401	-0.4219u	-0.1606u	-0.0418u
Zn 206.200	1.8303	0.8781	1.9220

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1877b	ppb	0.1303	69.4	-36.2704
Al 308.215	24.3648b	ppb	0.9181	3.8	185.318
As 188.980	2.1515b	ppb	2.9005	134.8	-5.6929
B 249.678	34.0279b	ppb	0.3125	0.9	607.338
Ba 389.178	20.3804b	ppb	0.6924	3.4	479.340
Be 313.042	0.0082b	ppb	0.0050	60.6	-374.726
Ca 370.602	554.5b	ppb	6.464	1.2	1790
Cd 226.502	-0.1343b	ppb	0.0593	44.2	30.9781
Co 228.615	0.3345b	ppb	0.4757	142.2	12.0390
Cr 267.716	-0.1336b	ppb	0.0625	46.8	12.7855
Cu 324.754	0.4549b	ppb	0.3965	87.2	284.607
Fe 271.441	-2.2607b	ppb	3.1320	138.5	103.581
K 766.491	144.367b	ppb	0.1944	0.1	5934.44
Mg 279.078	112.046b	ppb	1.7630	1.6	299.942
Mn 257.610	16.8678b	ppb	0.0991	0.6	4583.52
Mo 202.032	-0.2539b	ppb	0.2956	116.4	14.8036
Na 330.237	116266xb	ppb	267.403	0.2	6410.01
Ni 231.604	0.6958b	ppb	0.8948	128.6	-3.6834
Pb 220.353	0.0291b	ppb	2.8226	9695.8	31.7073
Sb 206.834	-0.3972b	ppb	1.9759	497.5	3.1446
Se 196.026	-2.3056b	ppb	1.0509	45.6	10.4920
Sn 189.925	-0.2641b	ppb	4.5597	1726.7	-12.7012
Sr 216.596	3.2983b	ppb	0.3438	10.4	62.7795
Ti 334.941	-0.0338b	ppb	0.0184	54.5	-61.5216
Tl 190.794	0.7361b	ppb	2.9092	395.2	-14.8962
V 292.401	-0.2081b	ppb	0.1945	93.4	-15.6199
Zn 206.200	1.5434b	ppb	0.5780	37.5	317.6064

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**680-89727-a-5-g (Samp)**      **5/7/2013, 5:54:29 PM**      **Rack 1, Tube 19****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4242u	-0.1103u	-0.3306u
Al 308.215	28.1303	26.9986	21.3584
As 188.980	-0.2128	1.4483	10.6426
B 249.678	43.4417	43.1721	44.5566
Ba 389.178	17.0079	16.5329	17.8114
Be 313.042	0.0033u	0.0053	0.0043
Ca 370.602	17341	17312	17364
Cd 226.502	-0.0725u	-0.0550u	-0.0481u
Co 228.615	0.5462	0.3346	0.0861
Cr 267.716	0.2676	0.1939	0.2448
Cu 324.754	0.2823	-0.0165u	0.8143
Fe 271.441	3.4936	-2.9054u	1.8601
K 766.491	181.041	182.329	183.548
Mg 279.078	518.497	521.849	512.981
Mn 257.610	40.5586	40.7115	40.6485
Mo 202.032	-0.0768u	-0.2398u	-0.1135u
Na 330.237	121683x	121856x	122203x
Ni 231.604	-0.1316u	1.7634	1.2401
Pb 220.353	-0.2000u	0.7181	-2.6001u
Sb 206.834	-0.3492u	-3.9654u	1.9978
Se 196.026	0.0716	1.5690	3.1900
Sn 189.925	0.2913	0.4426	-1.9145u
Sr 216.596	57.6596	57.8987	57.7439
Ti 334.941	-0.0147u	0.0587	-0.0384u
Tl 190.794	1.4491	-0.7227u	-4.1017u
V 292.401	-0.5036u	0.2511	-0.2433u
Zn 206.200	3.0916	2.9544	1.2486

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2884b	ppb	0.1612	55.9	-47.0098
Al 308.215	25.4958b	ppb	3.6275	14.2	190.600
As 188.980	3.9594b	ppb	5.8471	147.7	-4.7160
B 249.678	43.7235b	ppb	0.7340	1.7	738.465
Ba 389.178	17.1174b	ppb	0.6462	3.8	404.603
Be 313.042	0.0043b	ppb	0.0010	23.2	-376.990
Ca 370.602	17339b	ppb	26.15	0.2	55718
Cd 226.502	-0.0585b	ppb	0.0126	21.5	34.0960
Co 228.615	0.3223b	ppb	0.2303	71.5	11.8647
Cr 267.716	0.2354b	ppb	0.0377	16.0	32.5057
Cu 324.754	0.3601b	ppb	0.4208	116.9	280.141
Fe 271.441	0.8161b	ppb	3.3248	407.4	109.322
K 766.491	182.306b	ppb	1.2535	0.7	7396.58
Mg 279.078	517.776b	ppb	4.4776	0.9	1244.93
Mn 257.610	40.6395b	ppb	0.0768	0.2	10942.6
Mo 202.032	-0.1433b	ppb	0.0855	59.7	15.7076
Na 330.237	121914xb	ppb	264.946	0.2	6718.07
Ni 231.604	0.9573b	ppb	0.9786	102.2	-2.8721
Pb 220.353	-0.6940b	ppb	1.7134	246.9	30.2097
Sb 206.834	-0.7723b	ppb	3.0040	389.0	2.6805
Se 196.026	1.6102b	ppb	1.5596	96.9	12.6644
Sn 189.925	-0.3935b	ppb	1.3194	335.3	-12.8214
Sr 216.596	57.7674b	ppb	0.1213	0.2	765.392
Ti 334.941	0.0019b	ppb	0.0506	2734.4	-49.0335
Tl 190.794	-1.1251b	ppb	2.7972	248.6	-17.0021
V 292.401	-0.1653b	ppb	0.3833	231.9	-14.4995
Zn 206.200	2.4315b	ppb	1.0267	42.2	37.0532

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680-89727-a-6-d (Samp) 5/7/2013, 5:59:54 PM Rack 1, Tube 20

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1052u	-0.2044u	-0.2711u
Al 308.215	28.5532	26.3597	28.9595
As 188.980	2.2191	2.3840	-8.6844u
B 249.678	50.0480	50.5199	50.1443
Ba 389.178	20.0351	20.9766	21.2319
Be 313.042	0.0027u	0.0077	0.0044u
Ca 370.602	697.0	694.9	687.5
Cd 226.502	-0.0530u	-0.0141u	-0.0771u
Co 228.615	0.3130	0.5437	-0.2851u
Cr 267.716	0.1082	-0.0836u	0.0623
Cu 324.754	0.4357	0.1972	0.3980
Fe 271.441	3.0329	-0.3198u	1.2709
K 766.491	164.236	164.615	161.997
Mg 279.078	149.556	150.436	147.779
Mn 257.610	17.5961	17.5973	17.3940
Mo 202.032	-0.4507u	-0.1650u	-0.5345u
Na 330.237	123295x	123726x	122348x
Ni 231.604	0.5409	0.2974	-0.9413u
Pb 220.353	0.0862	-0.3030u	0.2110
Sb 206.834	0.4654	0.8455	2.5462
Se 196.026	-3.5186u	-3.5816u	4.6911
Sn 189.925	1.9903	0.5221	-1.7968u
Sr 216.596	3.3382	3.7581	3.3598
Ti 334.941	-0.0724u	-0.0546u	-0.0332u
Tl 190.794	0.1691	-2.3914u	-2.5377u
V 292.401	-0.2297u	0.0523	-0.0032u
Zn 206.200	2.1399	3.4142	3.5163

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1936b	ppb	0.0835	43.1	-36.7484
Al 308.215	27.9575b	ppb	1.3985	5.0	202.015
As 188.980	-1.3604b	ppb	6.3433	466.3	-7.3747
B 249.678	50.2374b	ppb	0.2494	0.5	826.562
Ba 389.178	20.7479b	ppb	0.6303	3.0	487.983
Be 313.042	0.0049b	ppb	0.0025	51.3	-381.781
Ca 370.602	693.1b	ppb	4.950	0.7	2235
Cd 226.502	-0.0480b	ppb	0.0318	66.2	34.5252
Co 228.615	0.1906b	ppb	0.4277	224.5	10.0834
Cr 267.716	0.0289b	ppb	0.1002	346.1	21.5096
Cu 324.754	0.3436b	ppb	0.1282	37.3	279.365
Fe 271.441	1.3280b	ppb	1.6771	126.3	110.254
K 766.491	163.616b	ppb	1.4145	0.9	6676.27
Mg 279.078	149.257b	ppb	1.3533	0.9	386.635
Mn 257.610	17.5292b	ppb	0.1170	0.7	4760.64
Mo 202.032	-0.3834b	ppb	0.1937	50.5	13.7448
Na 330.237	123123xb	ppb	704.911	0.6	6784.00
Ni 231.604	-0.0344b	ppb	0.7949	2313.9	-5.9491
Pb 220.353	-0.0019b	ppb	0.2681	14015.3	31.6427
Sb 206.834	1.2857b	ppb	1.1081	86.2	5.2197
Se 196.026	-0.8030b	ppb	4.7582	592.5	11.3233
Sn 189.925	0.2385b	ppb	1.9094	800.5	-12.1881
Sr 216.596	3.4854b	ppb	0.2365	6.8	65.2150
Ti 334.941	-0.0534b	ppb	0.0196	36.7	-67.9544
Tl 190.794	-1.5867b	ppb	1.5223	95.9	-17.4772
V 292.401	-0.0602b	ppb	0.1494	248.2	-11.4097
Zn 206.200	3.0235b	ppb	0.7669	25.4	40191

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**680-89727-a-7-g (Samp)**                      **5/7/2013, 6:05:30 PM**                      **Rack 1, Tube 21****Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2309u	-0.0151u	-0.1903u
Al 308.215	18.6861	17.3310	13.6116
As 188.980	-1.5423u	-0.6655u	5.2185
B 249.678	40.1629	40.9259	40.6063
Ba 389.178	14.0024	13.3873	13.9070
Be 313.042	-0.0081u	-0.0046u	-0.0078u
Ca 370.602	9415	9374	9316
Cd 226.502	-0.0689u	-0.0563u	-0.2998u
Co 228.615	-0.0292u	-0.1570u	0.2582
Cr 267.716	0.2822	-0.0353	0.0501
Cu 324.754	0.3796	0.3010	0.3814
Fe 271.441	-4.9800u	-1.5742u	-1.3091u
K 766.491	263.028	261.236	260.925
Mg 279.078	206.298	202.393	201.609
Mn 257.610	18.8956	18.7893	18.7471
Mo 202.032	0.4623	-0.1791u	0.2040
Na 330.237	123147x	123678x	123501x
Ni 231.604	-0.0619u	0.2589	0.9911
Pb 220.353	0.3868	-2.8735u	-1.3344u
Sb 206.834	0.8130	-0.9481u	2.5768
Se 196.026	-3.1454u	0.7064	5.5833
Sn 189.925	2.3492	3.5496	1.7955
Sr 216.596	133.452	132.361	132.643
Ti 334.941	0.0731	0.0314	0.0110u
Tl 190.794	-2.9640u	-1.0939u	-1.1213u
V 292.401	0.0554	-0.1322u	-0.2581u
Zn 206.200	1.4608	3.0304	0.7628

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1454b	ppb	0.1147	78.8	-39.1931
Al 308.215	16.5429b	ppb	2.6275	15.9	149.082
As 188.980	1.0035b	ppb	3.6765	366.4	-6.1851
B 249.678	40.5651b	ppb	0.3831	0.9	695.752
Ba 389.178	13.7656b	ppb	0.3310	2.4	325.897
Be 313.042	-0.0068b	ppb	0.0019	28.5	-401.137
Ca 370.602	9368b	ppb	49.62	0.5	30109
Cd 226.502	-0.1417b	ppb	0.1371	96.8	30.6262
Co 228.615	0.0240b	ppb	0.2127	885.5	7.8223
Cr 267.716	0.0990b	ppb	0.1643	166.0	25.2243
Cu 324.754	0.3540b	ppb	0.0459	13.0	279.862
Fe 271.441	-2.6211b	ppb	2.0472	78.1	102.859
K 766.491	261.730b	ppb	1.1350	0.4	10457.5
Mg 279.078	203.433b	ppb	2.5113	1.2	512.856
Mn 257.610	18.8107b	ppb	0.0765	0.4	5103.87
Mo 202.032	0.1624b	ppb	0.3227	198.7	18.2072
Na 330.237	123442xb	ppb	270.294	0.2	6801.39
Ni 231.604	0.3961b	ppb	0.5397	136.3	-4.6136
Pb 220.353	-1.2737b	ppb	1.6310	128.1	28.9979
Sb 206.834	0.8139b	ppb	1.7624	216.5	4.6336
Se 196.026	1.0481b	ppb	4.3744	417.4	12.3475
Sn 189.925	2.5648b	ppb	0.8967	35.0	-9.8228
Sr 216.596	132.819b	ppb	0.5663	0.4	1729.70
Ti 334.941	0.0385b	ppb	0.0317	82.3	-39.4759
Tl 190.794	-1.7264b	ppb	1.0719	62.1	-17.6345
V 292.401	-0.1116b	ppb	0.1577	141.3	-12.9829
Zn 206.200	1.7513b	ppb	1.1614	66.3	31.9445



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680-89727-a-8-e (Samp) 5/7/2013, 6:10:57 PM Rack 1, Tube 22

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0729u	-0.1722u	-0.1009u
Al 308.215	39.2826	40.7029	36.3351
As 188.980	-3.6391u	4.4929	3.7076
B 249.678	48.7540	48.6815	48.8216
Ba 389.178	20.8810	20.3071	20.4230
Be 313.042	-0.0003u	0.0007u	0.0015u
Ca 370.602	1184	1180	1176
Cd 226.502	0.0952	-0.1863u	0.0455
Co 228.615	0.4562	0.0504	-0.0762u
Cr 267.716	0.2642	0.3767	0.3021
Cu 324.754	0.6600	0.6387	0.7577
Fe 271.441	1.4858	-0.1865u	-0.6607u
K 766.491	133.258	132.892	133.159
Mg 279.078	349.051	348.627	345.942
Mn 257.610	2.0981	2.0596	2.1387
Mo 202.032	-0.2484u	-0.1219u	0.3210
Na 330.237	118408x	117893x	118245x
Ni 231.604	-1.4803u	0.4565	0.3348
Pb 220.353	1.6040	3.9835	2.5676
Sb 206.834	-0.8077u	1.6125	0.5623
Se 196.026	-2.3030u	-7.5866u	-0.4615u
Sn 189.925	2.9086	3.0623	-1.6024u
Sr 216.596	9.2749	9.0934	9.0479
Ti 334.941	-0.0348u	-0.0429u	-0.0325u
Tl 190.794	2.9614	-2.3613u	-2.7780u
V 292.401	-0.3000u	-0.2113u	-0.1685u
Zn 206.200	3.1989	1.9602	1.8135

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1154b	ppb	0.0512	44.4	-30.7742
Al 308.215	38.7735b	ppb	2.2279	5.7	252.211
As 188.980	1.5205b	ppb	4.4855	295.0	-5.9912
B 249.678	48.7524b	ppb	0.0701	0.1	806.479
Ba 389.178	20.5370b	ppb	0.3035	1.5	483.603
Be 313.042	0.0007b	ppb	0.0009	136.3	-389.182
Ca 370.602	1180b	ppb	3.864	0.3	3799
Cd 226.502	-0.0152b	ppb	0.1502	988.8	35.9148
Co 228.615	0.1435b	ppb	0.2781	193.8	9.4460
Cr 267.716	0.3143b	ppb	0.0572	18.2	36.4192
Cu 324.754	0.6855b	ppb	0.0635	9.3	295.495
Fe 271.441	0.2129b	ppb	1.1276	529.7	108.164
K 766.491	133.103b	ppb	0.1891	0.1	5500.32
Mg 279.078	347.873b	ppb	1.6864	0.5	849.711
Mn 257.610	2.0988b	ppb	0.0395	1.9	637.482
Mo 202.032	-0.0164b	ppb	0.2990	1822.8	16.7456
Na 330.237	118182xb	ppb	263.524	0.2	6514.52
Ni 231.604	-0.2297b	ppb	1.0848	472.3	-6.5552
Pb 220.353	2.7184b	ppb	1.1969	44.0	37.2948
Sb 206.834	0.4557b	ppb	1.2136	266.3	4.1980
Se 196.026	-3.4504b	ppb	3.6985	107.2	9.8547
Sn 189.925	1.4562b	ppb	2.6499	182.0	-10.9543
Sr 216.596	9.1387b	ppb	0.1201	1.3	137.977
Ti 334.941	-0.0367b	ppb	0.0054	14.8	-61.4218
Tl 190.794	-0.7260b	ppb	3.2001	440.8	-16.4963
V 292.401	-0.2266b	ppb	0.0671	29.6	-16.2686
Zn 206.200	2.3242b	ppb	0.7610	32.7	378780

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680-89727-a-9-e (Samp) 5/7/2013, 6:16:23 PM Rack 1, Tube 23

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0802u	-0.3140u	-0.2418u
Al 308.215	53.1062	55.0999	54.7345
As 188.980	0.3691	-0.2475u	7.0889
B 249.678	40.0502	40.3194	39.7161
Ba 389.178	35.5621	35.9374	36.5100
Be 313.042	-0.0079u	0.0008u	0.0007u
Ca 370.602	394.2	398.0	394.6
Cd 226.502	-0.0539u	0.0116u	-0.0019u
Co 228.615	0.4021	-0.0883u	0.4961
Cr 267.716	-0.0615u	-0.0809u	-0.0481u
Cu 324.754	0.4118	0.4791	0.4963
Fe 271.441	-2.8320u	3.1127	-7.9419u
K 766.491	130.869	128.971	129.940
Mg 279.078	236.699	225.880	230.123
Mn 257.610	0.3058	0.2431	0.3563
Mo 202.032	0.3157	0.1923	0.2195
Na 330.237	117823x	116027x	116872x
Ni 231.604	1.2573	0.9890	-0.0251u
Pb 220.353	10.7593	11.7956	11.3156
Sb 206.834	1.5464	-3.9076u	0.1801
Se 196.026	3.5802	0.3607	-6.1629u
Sn 189.925	1.1896	2.1058	0.6147
Sr 216.596	4.5514	4.8417	4.4029
Ti 334.941	-0.0714u	-0.0343u	-0.0058u
Tl 190.794	-4.9000u	-1.2195u	-1.0403u
V 292.401	-0.2541u	-0.4132u	-0.1776u
Zn 206.200	3.4911	1.0095	1.3401

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2120b	ppb	0.1197	56.5	-38.3816
Al 308.215	54.3136b	ppb	1.0614	2.0	324.366
As 188.980	2.4035b	ppb	4.0693	169.3	-5.5733
B 249.678	40.0286b	ppb	0.3023	0.8	688.497
Ba 389.178	36.0032b	ppb	0.4774	1.3	842.629
Be 313.042	-0.0021b	ppb	0.0049	230.6	-394.686
Ca 370.602	395.6b	ppb	2.077	0.5	1279
Cd 226.502	-0.0147b	ppb	0.0346	234.5	35.9275
Co 228.615	0.2700b	ppb	0.3138	116.2	11.1371
Cr 267.716	-0.0635b	ppb	0.0165	26.0	16.4250
Cu 324.754	0.4624b	ppb	0.0446	9.7	284.981
Fe 271.441	-2.5537b	ppb	5.5326	216.6	103.023
K 766.491	129.927b	ppb	0.9489	0.7	5377.91
Mg 279.078	230.901b	ppb	5.4515	2.4	577.174
Mn 257.610	0.3017b	ppb	0.0567	18.8	155.937
Mo 202.032	0.2425b	ppb	0.0649	26.8	18.8622
Na 330.237	116907xb	ppb	898.229	0.8	6445.00
Ni 231.604	0.7404b	ppb	0.6764	91.4	-3.5451
Pb 220.353	11.2901b	ppb	0.5186	4.6	55.1164
Sb 206.834	-0.7270b	ppb	2.8379	390.4	2.7259
Se 196.026	-0.7407b	ppb	4.9640	670.2	11.3529
Sn 189.925	1.3034b	ppb	0.7520	57.7	-11.1104
Sr 216.596	4.5987b	ppb	0.2232	4.9	79.4586
Ti 334.941	-0.0372b	ppb	0.0329	88.5	-62.0361
Tl 190.794	-2.3866b	ppb	2.1785	91.3	-18.3376
V 292.401	-0.2816b	ppb	0.1202	42.7	-17.9401
Zn 206.200	1.9469b	ppb	1.3475	69.2	32.2638

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89727-a-11-e (Samp) 5/7/2013, 6:21:49 PM Rack 1, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1669u	-0.0113u	-0.4454u
Al 308.215	30.1708	30.5709	32.0203
As 188.980	4.6901	-2.2117u	-2.2340u
B 249.678	41.7908	41.6771	42.4410
Ba 389.178	23.1693	23.3963	23.7483
Be 313.042	0.0127	0.0132	0.0122
Ca 370.602	780.3	772.9	773.9
Cd 226.502	-0.0862u	-0.0262u	0.0081u
Co 228.615	-0.0213u	0.4462	0.1955
Cr 267.716	-0.0065	0.1227	-0.0427
Cu 324.754	0.7179	0.5977	0.4787
Fe 271.441	-11.3603u	2.3180	-0.1489u
K 766.491	149.348	148.318	150.973
Mg 279.078	177.929	176.386	178.738
Mn 257.610	18.4033	18.3446	18.4473
Mo 202.032	-0.3226u	-0.3160u	-0.0616u
Na 330.237	123681x	123084x	123463x
Ni 231.604	1.5164	0.4967	0.4966
Pb 220.353	-0.3020u	1.6598	-0.2507u
Sb 206.834	2.3238	-0.0321u	-3.5280u
Se 196.026	1.4484	1.4004	-0.2043u
Sn 189.925	0.5394	4.2288	-1.8512u
Sr 216.596	7.1996	7.1133	6.5955
Ti 334.941	-0.0372u	-0.0693u	-0.0513u
Tl 190.794	-0.5865u	1.3936	0.3415
V 292.401	0.0469	-0.2426u	0.0890
Zn 206.200	2.8254	0.8435	1.0554

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2079b	ppb	0.2199	105.8	-38.0634
Al 308.215	30.9207b	ppb	0.9731	3.1	215.758
As 188.980	0.0815b	ppb	3.9912	4899.1	-6.6833
B 249.678	41.9696b	ppb	0.4121	1.0	714.750
Ba 389.178	23.4380b	ppb	0.2917	1.2	550.551
Be 313.042	0.0127b	ppb	0.0005	3.8	-367.089
Ca 370.602	775.7b	ppb	4.013	0.5	2501
Cd 226.502	-0.0348b	ppb	0.0478	137.4	35.0531
Co 228.615	0.2068b	ppb	0.2340	113.1	10.3044
Cr 267.716	0.0245b	ppb	0.0870	355.1	21.2832
Cu 324.754	0.5981b	ppb	0.1196	20.0	291.367
Fe 271.441	-3.0637b	ppb	7.2901	237.9	102.065
K 766.491	149.546b	ppb	1.3388	0.9	6134.04
Mg 279.078	177.684b	ppb	1.1945	0.7	452.858
Mn 257.610	18.3984b	ppb	0.0515	0.3	4993.29
Mo 202.032	-0.2334b	ppb	0.1489	63.8	14.9714
Na 330.237	123409xb	ppb	302.169	0.2	6799.61
Ni 231.604	0.8365b	ppb	0.5887	70.4	-3.2469
Pb 220.353	0.3690b	ppb	1.1181	303.0	32.4144
Sb 206.834	-0.4121b	ppb	2.9444	714.5	3.1248
Se 196.026	0.8815b	ppb	0.9406	106.7	12.2552
Sn 189.925	0.9723b	ppb	3.0631	315.0	-11.4433
Sr 216.596	6.9695b	ppb	0.3267	4.7	110.019
Ti 334.941	-0.0526b	ppb	0.0161	30.6	-67.5893
Tl 190.794	0.3829b	ppb	0.9907	258.8	-15.2910
V 292.401	-0.0356b	ppb	0.1806	507.6	-10.6775
Zn 206.200	1.5748b	ppb	1.0882	69.1	317.6567

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Verif (CCV) 5/7/2013, 6:27:14 PM Rack 1, Tube 25  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	485.861	488.824	482.888
Al 308.215	4791.46	4802.67	4797.66
As 188.980	495.177	489.340	479.924
B 249.678	493.123	492.064	491.764
Ba 389.178	5030.61	5032.19	5020.38
Be 313.042	504.278	504.812	503.749
Ca 370.602	4951	4939	4933
Cd 226.502	509.869	509.152	507.852
Co 228.615	515.229	514.912	511.329
Cr 267.716	5075.28	5065.34	5050.52
Cu 324.754	4897.63	5029.21	4939.57
Fe 271.441	4880.43	4854.91	4855.69
K 766.491	9942.95	9932.04	9962.88
Mg 279.078	4881.04	4876.36	4876.30
Mn 257.610	5178.04	5151.90	5152.32
Mo 202.032	493.313	490.772	492.124
Na 330.237	7187.11	7272.79	6939.33
Ni 231.604	2562.22	2568.05	2557.06
Pb 220.353	486.047	489.872	482.443
Sb 206.834	950.130	954.960	949.431
Se 196.026	4868.10	4866.04	4826.32
Sn 189.925	4953.61	5017.70	4932.87
Sr 216.596	2480.97	2478.21	2473.58
Ti 334.941	485.815	484.424	484.031
Tl 190.794	4954.49	4924.19	4922.10
V 292.401	4882.99	4870.43	4859.30
Zn 206.200	2570.51	2571.93	2560.02

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	485.858	ppb	2.9676	0.6	39210.9	97.17157
Al 308.215	4797.26	ppb	5.6182	0.1	22314.9	95.94522
As 188.980	488.147	ppb	7.6961	1.6	227.053	97.62936
B 249.678	492.317	ppb	0.7138	0.1	6798.97	19.69268Q
Ba 389.178	5027.72	ppb	6.4131	0.1	116851	100.55447
Be 313.042	504.280	ppb	0.5318	0.1	957015	100.85593
Ca 370.602	4941	ppb	9.190	0.2	15763	98.82081
Cd 226.502	508.958	ppb	1.0224	0.2	21156.6	101.79150
Co 228.615	513.823	ppb	2.1656	0.4	6962.10	102.76469
Cr 267.716	5063.71	ppb	12.4594	0.2	267496	101.27428
Cu 324.754	4955.47	ppb	67.2156	1.4	234036	99.10944
Fe 271.441	4863.67	ppb	14.5114	0.3	9317.88	97.27350
K 766.491	9945.96	ppb	15.6378	0.2	383684	99.45956
Mg 279.078	4877.90	ppb	2.7174	0.1	11313.4	97.55803
Mn 257.610	5160.75	ppb	14.9739	0.3	1379785	103.21506
Mo 202.032	492.070	ppb	1.2715	0.3	4028.88	98.41393
Na 330.237	7133.08	ppb	173.171	2.4	431.942	95.10768
Ni 231.604	2562.45	ppb	5.4987	0.2	7945.69	102.49780
Pb 220.353	486.121	ppb	3.7153	0.8	1042.54	97.22412
Sb 206.834	951.507	ppb	3.0105	0.3	1237.54	95.15068
Se 196.026	4853.49	ppb	23.5460	0.5	2697.70	97.06973
Sn 189.925	4968.06	ppb	44.2225	0.9	5029.14	99.36121
Sr 216.596	2477.59	ppb	3.7333	0.2	31816.9	99.10348
Ti 334.941	484.757	ppb	0.9376	0.2	148957	96.95134
Tl 190.794	4933.59	ppb	18.1272	0.4	5457.48	98.67187
V 292.401	4870.91	ppb	11.8485	0.2	142307	97.41811
Zn 206.200	2567.49	ppb	6.5061	0.3	4169.19	102.69944

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Blank (CCB)                      5/7/2013, 6:32:38 PM                      Rack 1, Tube 26  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3499u	-0.1777u	-0.1674u
Al 308.215	0.1142	-3.4118u	-0.5200u
As 188.980	-0.9773u	-5.0588u	1.4324
B 249.678	6.6862	6.5128	5.8800
Ba 389.178	-0.0352u	-0.4116u	-0.1690u
Be 313.042	-0.0011u	0.0011	-0.0046u
Ca 370.602	-1.312u	-1.142u	-2.370u
Cd 226.502	-0.2671u	-0.1542u	-0.1190u
Co 228.615	-0.0961u	-0.1359u	-0.6430u
Cr 267.716	-0.2875u	-0.2499u	-0.2643u
Cu 324.754	0.1015	-0.0180u	-0.2435u
Fe 271.441	-1.8482u	2.7014	-5.9210u
K 766.491	-2.1885u	-2.4290u	-2.6377u
Mg 279.078	-0.3704u	-2.0614u	-1.9056u
Mn 257.610	-0.1084u	-0.0795u	-0.0447u
Mo 202.032	0.0929	-0.4855u	0.1358
Na 330.237	-46.7227u	-223.299u	-34.0883u
Ni 231.604	0.4719	1.1807	-0.4850u
Pb 220.353	0.1404	-3.1543u	0.7961
Sb 206.834	7.0847	3.1805	1.3961
Se 196.026	-0.5449u	-0.2254u	-0.1819u
Sn 189.925	-1.2887u	-0.5693u	-0.5565u
Sr 216.596	-0.5006u	-0.1852u	-0.1805u
Ti 334.941	0.0703	0.0633	0.0358
Tl 190.794	2.0666	1.2886	1.3420
V 292.401	-0.0957u	-0.0162u	-0.0420u
Zn 206.200	0.8197	0.8430	-1.0825u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2317	ppb	0.1025	44.2	-39.7190	-0.23169
Al 308.215	-1.2725	ppb	1.8796	147.7	66.3981	-1.27255
As 188.980	-1.5346	ppb	3.2813	213.8	-7.4627	-1.53458
B 249.678	6.3597	ppb	0.4243	6.7	233.130	6.35967
Ba 389.178	-0.2053	ppb	0.1908	93.0	0.7647	-0.20527
Be 313.042	-0.0016	ppb	0.0029	183.4	-379.964	-0.00156
Ca 370.602	-1.608	ppb	0.6651	41.4	2.592	-1.60794
Cd 226.502	-0.1801	ppb	0.0774	43.0	29.8018	-0.18013
Co 228.615	-0.2917	ppb	0.3049	104.5	3.5637	-0.29171
Cr 267.716	-0.2673	ppb	0.0190	7.1	3.3580	-0.26726
Cu 324.754	-0.0533	ppb	0.1752	328.5	260.638	-0.05333
Fe 271.441	-1.6893	ppb	4.3134	255.3	104.545	-1.68928
K 766.491	-2.4184	ppb	0.2248	9.3	277.372	-2.41842
Mg 279.078	-1.4458	ppb	0.9346	64.6	35.7981	-1.44580
Mn 257.610	-0.0776	ppb	0.0319	41.1	53.0843	-0.07756
Mo 202.032	-0.0856	ppb	0.3470	405.3	16.1793	-0.08562
Na 330.237	-101.370	ppb	105.782	104.4	63.4318	-101.37010
Ni 231.604	0.3892	ppb	0.8359	214.8	-4.6349	0.38921
Pb 220.353	-0.7393	ppb	2.1170	286.4	30.1040	-0.73925
Sb 206.834	3.8871	ppb	2.9094	74.8	8.4250	3.88709
Se 196.026	-0.3174	ppb	0.1982	62.5	11.5870	-0.31739
Sn 189.925	-0.8048	ppb	0.4191	52.1	-13.3008	-0.80481
Sr 216.596	-0.2888	ppb	0.1835	63.5	16.5652	-0.28880
Ti 334.941	0.0565	ppb	0.0182	32.2	-24.3812	0.05646
Tl 190.794	1.5658	ppb	0.4346	27.8	-13.9477	1.56576
V 292.401	-0.0513	ppb	0.0406	79.1	-10.1116	-0.05130
Zn 206.200	0.1934	ppb	1.1950	571.3	30.5939	0.19340

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**680-89727-a-12-d (Samp) 5/7/2013, 6:38:01 PM Rack 1, Tube 27****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2527u	-0.0657u	-0.1115u
Al 308.215	47.8210	47.5223	49.7420
As 188.980	4.4446	4.2569	-3.2460u
B 249.678	45.7364	47.0880	46.3913
Ba 389.178	27.0039	27.1813	28.0963
Be 313.042	0.0011u	0.0060u	0.0077
Ca 370.602	505.6	506.8	506.7
Cd 226.502	-0.1040u	-0.1305u	-0.2480u
Co 228.615	0.0860	0.5508	-0.0149u
Cr 267.716	0.0750	0.1629	0.0359
Cu 324.754	0.2199	0.5206	0.0005
Fe 271.441	5.6569	4.9945	8.1339
K 766.491	155.155	154.755	154.517
Mg 279.078	242.000	240.638	240.764
Mn 257.610	0.4298	0.4372	0.4709
Mo 202.032	-0.1090u	0.2514	0.0752
Na 330.237	125000x	124981x	123996x
Ni 231.604	0.8392	0.5480	0.1093
Pb 220.353	4.1474	3.1913	3.7529
Sb 206.834	-3.2067u	-0.1904u	0.8116
Se 196.026	8.2774	5.9590	4.6867
Sn 189.925	-0.0725u	0.4647	1.4467
Sr 216.596	3.9229	3.9798	3.8427
Ti 334.941	-0.0125u	-0.0378u	0.0059u
Tl 190.794	1.3792	-2.2353u	0.5184
V 292.401	-0.1111u	0.1197	0.1968
Zn 206.200	2.2746	1.6357	2.1552

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1433b	ppb	0.0975	68.0	-32.7892
Al 308.215	48.3618b	ppb	1.2046	2.5	296.709
As 188.980	1.8185b	ppb	4.3870	241.2	-5.8529
B 249.678	46.4052b	ppb	0.6759	1.5	774.728
Ba 389.178	27.4272b	ppb	0.5862	2.1	643.415
Be 313.042	0.0049b	ppb	0.0035	70.2	-382.039
Ca 370.602	506.4b	ppb	0.6653	0.1	1634
Cd 226.502	-0.1608b	ppb	0.0767	47.7	29.8544
Co 228.615	0.2073b	ppb	0.3017	145.6	10.3039
Cr 267.716	0.0913b	ppb	0.0651	71.3	24.7526
Cu 324.754	0.2470b	ppb	0.2611	105.7	274.809
Fe 271.441	6.2618b	ppb	1.6548	26.4	119.463
K 766.491	154.809b	ppb	0.3224	0.2	6336.86
Mg 279.078	241.134b	ppb	0.7526	0.3	601.020
Mn 257.610	0.4460b	ppb	0.0219	4.9	194.574
Mo 202.032	0.0725b	ppb	0.1802	248.5	17.4716
Na 330.237	124659xb	ppb	574.369	0.5	6867.76
Ni 231.604	0.4988b	ppb	0.3674	73.7	-4.2946
Pb 220.353	3.6972b	ppb	0.4805	13.0	39.3295
Sb 206.834	-0.8618b	ppb	2.0916	242.7	2.5670
Se 196.026	6.3077b	ppb	1.8206	28.9	15.2515
Sn 189.925	0.6130b	ppb	0.7704	125.7	-11.8075
Sr 216.596	3.9151b	ppb	0.0689	1.8	70.7060
Ti 334.941	-0.0148b	ppb	0.0219	148.4	-55.7577
Tl 190.794	-0.1126b	ppb	1.8881	1677.4	-15.8125
V 292.401	0.0685b	ppb	0.1603	234.1	-7.6879
Zn 206.200	2.0218b	ppb	0.3397	126.8	337.3864

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89727-h-13-e (Samp) 5/7/2013, 6:43:25 PM Rack 1, Tube 28

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2157u	0.0552	-0.2985u
Al 308.215	61.4290	62.0472	62.1340
As 188.980	-0.2861u	1.7996	-1.7118u
B 249.678	51.2078	50.5485	51.1374
Ba 389.178	9.0638	8.8819	8.0856
Be 313.042	-0.0054u	-0.0011u	-0.0071u
Ca 370.602	619.0	622.1	620.3
Cd 226.502	-0.1418u	-0.0066u	0.1032
Co 228.615	-0.0610u	0.0647	0.7005
Cr 267.716	-0.0568u	0.0802	0.2245
Cu 324.754	0.6299	0.6343	0.2841
Fe 271.441	-1.5696u	5.3298	2.2011
K 766.491	150.019	150.450	149.535
Mg 279.078	416.088	411.003	412.697
Mn 257.610	0.4367	0.4447	0.4341
Mo 202.032	-0.2697u	-0.0831u	0.0922
Na 330.237	123249x	123438x	123825x
Ni 231.604	1.3049	0.2363	-0.3134u
Pb 220.353	0.7083	0.2286	2.0268
Sb 206.834	-0.0721u	0.2792	1.4407
Se 196.026	2.8579	5.4251	-1.4010u
Sn 189.925	1.2333	2.9856	-0.1887u
Sr 216.596	5.7935	6.4687	6.2980
Ti 334.941	0.0033u	-0.0509u	-0.0298u
Tl 190.794	-0.5445u	-0.2877u	-2.7211u
V 292.401	-0.3166u	0.1303	-0.1928u
Zn 206.200	4.8291	2.7748	3.2092

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1530b	ppb	0.1850	120.9	-33.6735
Al 308.215	61.8701b	ppb	0.3844	0.6	359.386
As 188.980	-0.0661b	ppb	1.7660	2673.0	-6.7550
B 249.678	50.9646b	ppb	0.3621	0.7	836.397
Ba 389.178	8.6771b	ppb	0.5203	6.0	208.229
Be 313.042	-0.0045b	ppb	0.0031	67.6	-399.849
Ca 370.602	620.5b	ppb	1.559	0.3	2001
Cd 226.502	-0.0151b	ppb	0.1227	813.5	35.8929
Co 228.615	0.2347b	ppb	0.4082	173.9	10.6771
Cr 267.716	0.0826b	ppb	0.1406	170.2	24.2724
Cu 324.754	0.5161b	ppb	0.2010	38.9	287.505
Fe 271.441	1.9871b	ppb	3.4546	173.9	111.491
K 766.491	150.001b	ppb	0.4578	0.3	6151.56
Mg 279.078	413.263b	ppb	2.5891	0.6	1002.10
Mn 257.610	0.4385b	ppb	0.0056	1.3	194.202
Mo 202.032	-0.0868b	ppb	0.1810	208.4	16.1695
Na 330.237	123504xb	ppb	293.809	0.2	6804.77
Ni 231.604	0.4093b	ppb	0.8229	201.1	-4.5726
Pb 220.353	0.9879b	ppb	0.9311	94.3	33.6967
Sb 206.834	0.5493b	ppb	0.7917	144.1	4.3095
Se 196.026	2.2940b	ppb	3.4478	150.3	13.0315
Sn 189.925	1.3434b	ppb	1.5900	118.4	-11.0668
Sr 216.596	6.1867b	ppb	0.3511	5.7	99.9279
Ti 334.941	-0.0258b	ppb	0.0273	106.0	-58.1819
Tl 190.794	-1.1844b	ppb	1.3370	112.9	-17.0028
V 292.401	-0.1264b	ppb	0.2307	182.6	-13.3730
Zn 206.200	3.6044b	ppb	1.0827	30.0	49660

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**680-89727-a-15-e (Samp)**      **5/7/2013, 6:48:50 PM**      **Rack 1, Tube 29****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2236u	-0.2173u	-0.1830u
Al 308.215	33.2760	30.0391	30.6181
As 188.980	3.1521	9.7641	-1.6829u
B 249.678	59.8067	58.4830	59.9760
Ba 389.178	21.8098	20.8930	21.6778
Be 313.042	-0.0000u	0.0068u	0.0119
Ca 370.602	1002	978.1	990.5
Cd 226.502	-0.0809u	-0.0382u	-0.1073u
Co 228.615	0.2541	0.5379	0.3974
Cr 267.716	0.0781	-0.0003	0.1388
Cu 324.754	0.4056	0.6313	0.5151
Fe 271.441	-3.2271u	3.7492	5.4602
K 766.491	178.483	176.868	178.238
Mg 279.078	164.547	165.234	171.588
Mn 257.610	6.3440	6.1993	6.3001
Mo 202.032	-0.1763u	0.0653	-0.0649u
Na 330.237	169399x	164561x	166352x
Ni 231.604	0.2117	-0.6735u	0.1211
Pb 220.353	0.9913	2.3263	-0.1645u
Sb 206.834	0.5142	1.4091	3.5606
Se 196.026	4.2101	0.6164	0.2507
Sn 189.925	-1.8370u	-1.3315u	1.2047
Sr 216.596	6.6328	6.8352	6.6036
Ti 334.941	0.0556	0.0060u	0.0262u
Tl 190.794	-2.8683u	0.3396	0.0233
V 292.401	0.4697	-0.0526u	-0.2494u
Zn 206.200	2.1409	2.0696	2.7043

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2080b	ppb	0.0218	10.5	-38.1248
Al 308.215	31.3111b	ppb	1.7262	5.5	217.589
As 188.980	3.7444b	ppb	5.7464	153.5	-4.9269
B 249.678	59.4219b	ppb	0.8175	1.4	950.782
Ba 389.178	21.4602b	ppb	0.4956	2.3	504.580
Be 313.042	0.0062b	ppb	0.0060	95.9	-384.370
Ca 370.602	990.2b	ppb	11.99	1.2	3189
Cd 226.502	-0.0755b	ppb	0.0349	46.2	33.1116
Co 228.615	0.3965b	ppb	0.1419	35.8	12.8640
Cr 267.716	0.0722b	ppb	0.0698	96.6	24.5987
Cu 324.754	0.5173b	ppb	0.1129	21.8	287.562
Fe 271.441	1.9941b	ppb	4.6019	230.8	111.532
K 766.491	177.863b	ppb	0.8705	0.5	7225.35
Mg 279.078	167.123b	ppb	3.8819	2.3	428.464
Mn 257.610	6.2811b	ppb	0.0742	1.2	1753.55
Mo 202.032	-0.0586b	ppb	0.1209	206.2	16.3997
Na 330.237	166771xb	ppb	2446.31	1.5	9164.51
Ni 231.604	-0.1136b	ppb	0.4871	428.9	-6.1949
Pb 220.353	1.0510b	ppb	1.2465	118.6	33.8287
Sb 206.834	1.8280b	ppb	1.5658	85.7	5.8870
Se 196.026	1.6924b	ppb	2.1881	129.3	12.7004
Sn 189.925	-0.6546b	ppb	1.6299	249.0	-13.0753
Sr 216.596	6.6905b	ppb	0.1261	1.9	106.461
Ti 334.941	0.0293b	ppb	0.0250	85.3	-46.1993
Tl 190.794	-0.8351b	ppb	1.7679	211.7	-16.6241
V 292.401	0.0559b	ppb	0.3716	665.0	-8.4085
Zn 206.200	2.3049b	ppb	0.3477	15.1	328474



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**680-89727-a-16-e (Samp) 5/7/2013, 6:54:14 PM Rack 1, Tube 30****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3395u	-0.2682u	-0.0464u
Al 308.215	70.1636	70.1533	71.8759
As 188.980	-1.2416u	-0.4284u	3.4708
B 249.678	49.5246	50.1825	49.9680
Ba 389.178	42.2364	43.0575	41.9422
Be 313.042	0.0021u	-0.0010u	-0.0024u
Ca 370.602	586.2	590.3	581.3
Cd 226.502	-0.1160u	-0.1066u	0.0110u
Co 228.615	0.6193	0.3935	-0.1035u
Cr 267.716	0.3839	0.0131	0.2074
Cu 324.754	0.3807	0.4962	0.0065
Fe 271.441	11.2137	12.8280	12.0415
K 766.491	137.118	139.344	135.980
Mg 279.078	407.152	416.280	409.160
Mn 257.610	0.8408	0.8486	0.8082
Mo 202.032	-0.5501u	-0.9932u	-0.1631u
Na 330.237	158108x	159649x	157794x
Ni 231.604	1.3506	0.4521	0.6827
Pb 220.353	8.3962	5.1586	7.6174
Sb 206.834	0.0885	3.7652	2.6067
Se 196.026	-5.9225u	0.3191	-3.1502u
Sn 189.925	1.3743	-0.7556u	-1.3254u
Sr 216.596	6.8679	7.0972	7.2324
Ti 334.941	-0.1111u	-0.0723u	-0.0667u
Tl 190.794	0.9445	-0.1339u	-2.3252u
V 292.401	-0.2717u	0.0369u	-0.0178u
Zn 206.200	1.5393	1.8501	2.9694

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2180b	ppb	0.1529	70.1	-38.9854
Al 308.215	70.7309b	ppb	0.9916	1.4	400.486
As 188.980	0.6003b	ppb	2.5190	419.6	-6.4360
B 249.678	49.8917b	ppb	0.3355	0.7	821.875
Ba 389.178	42.4120b	ppb	0.5780	1.4	992.019
Be 313.042	-0.0004b	ppb	0.0023	554.0	-396.131
Ca 370.602	585.9b	ppb	4.476	0.8	1889
Cd 226.502	-0.0706b	ppb	0.0708	100.3	33.4072
Co 228.615	0.3031b	ppb	0.3698	122.0	11.6056
Cr 267.716	0.2014b	ppb	0.1855	92.1	31.2435
Cu 324.754	0.2945b	ppb	0.2560	86.9	277.048
Fe 271.441	12.0278b	ppb	0.8072	6.7	130.233
K 766.491	137.481b	ppb	1.7108	1.2	5669.04
Mg 279.078	410.864b	ppb	4.7964	1.2	996.502
Mn 257.610	0.8325b	ppb	0.0214	2.6	299.327
Mo 202.032	-0.5688b	ppb	0.4154	73.0	12.2287
Na 330.237	158517xb	ppb	992.881	0.6	8714.38
Ni 231.604	0.8285b	ppb	0.4667	56.3	-3.2716
Pb 220.353	7.0574b	ppb	1.6899	23.9	46.3170
Sb 206.834	2.1535b	ppb	1.8798	87.3	6.2940
Se 196.026	-2.9179b	ppb	3.1273	107.2	10.1490
Sn 189.925	-0.2355b	ppb	1.4230	604.1	-12.6539
Sr 216.596	7.0658b	ppb	0.1843	2.6	111.235
Ti 334.941	-0.0834b	ppb	0.0242	29.0	-78.8995
Tl 190.794	-0.5048b	ppb	1.6661	330.0	-16.2490
V 292.401	-0.0842b	ppb	0.1647	195.6	-12.4139
Zn 206.200	2.1196b	ppb	0.7522	35.5	337.5460

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680-89727-a-17-e (Samp) 5/7/2013, 6:59:39 PM Rack 1, Tube 31

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0017u	-0.0108u	-0.1009u
Al 308.215	77.5956	76.0873	77.2909
As 188.980	-4.6803u	4.7272	6.1030
B 249.678	39.9763	39.1636	38.8519
Ba 389.178	9.1298	10.0466	10.0942
Be 313.042	0.0070u	0.0084u	0.0059u
Ca 370.602	584.0	582.5	582.0
Cd 226.502	-0.1569u	-0.0631u	-0.0772u
Co 228.615	0.4564	0.4776	0.5145
Cr 267.716	0.1173	0.1952	0.1602
Cu 324.754	0.6752	0.2136	0.5429
Fe 271.441	-1.3295u	0.4109	1.3571
K 766.491	150.178	147.794	149.251
Mg 279.078	388.674	387.936	388.503
Mn 257.610	0.5311	0.4859	0.5017
Mo 202.032	-0.6648u	-0.6627u	0.3394
Na 330.237	158651x	156731x	156681x
Ni 231.604	0.1805	0.4022	1.4266
Pb 220.353	-0.3752u	1.7312	1.8363
Sb 206.834	0.7444	2.1283	0.3129
Se 196.026	3.7552	1.5300	-3.0664u
Sn 189.925	-1.7183u	2.4383	-0.0597
Sr 216.596	6.0107	6.1988	5.7743
Ti 334.941	-0.0323u	-0.0427u	-0.0070u
Tl 190.794	-0.4978u	-1.3803u	-0.2436u
V 292.401	-0.2233u	-0.0878u	0.0279u
Zn 206.200	3.0292	0.9297	2.6211

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0367b	ppb	0.0560	152.6	-24.2642
Al 308.215	76.9913b	ppb	0.7976	1.0	429.524
As 188.980	2.0500b	ppb	5.8690	286.3	-5.7414
B 249.678	39.3306b	ppb	0.5805	1.5	679.052
Ba 389.178	9.7569b	ppb	0.5436	5.6	233.248
Be 313.042	0.0071b	ppb	0.0012	17.2	-381.673
Ca 370.602	582.8b	ppb	1.023	0.2	1880
Cd 226.502	-0.0991b	ppb	0.0506	51.1	32.1947
Co 228.615	0.4828b	ppb	0.0294	6.1	14.0402
Cr 267.716	0.1576b	ppb	0.0390	24.8	28.8978
Cu 324.754	0.4773b	ppb	0.2377	49.8	285.665
Fe 271.441	0.1462b	ppb	1.3627	932.2	108.099
K 766.491	149.074b	ppb	1.2021	0.8	6115.85
Mg 279.078	388.371b	ppb	0.3861	0.1	944.092
Mn 257.610	0.5062b	ppb	0.0230	4.5	211.859
Mo 202.032	-0.3294b	ppb	0.5792	175.9	14.1868
Na 330.237	157354xb	ppb	1123.13	0.7	8650.95
Ni 231.604	0.6698b	ppb	0.6648	99.3	-3.7642
Pb 220.353	1.0641b	ppb	1.2476	117.2	33.8557
Sb 206.834	1.0619b	ppb	0.9485	89.3	4.9475
Se 196.026	0.7396b	ppb	3.4788	470.4	12.1718
Sn 189.925	0.2201b	ppb	2.0924	950.6	-12.1920
Sr 216.596	5.9946b	ppb	0.2127	3.5	97.4603
Ti 334.941	-0.0274b	ppb	0.0183	67.1	-61.6965
Tl 190.794	-0.7072b	ppb	0.5966	84.4	-16.4725
V 292.401	-0.0944b	ppb	0.1257	133.2	-12.6782
Zn 206.200	2.1933b	ppb	1.1132	50.8	337.6652

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**680-89727-a-18-e (Samp)**      **5/7/2013, 7:05:04 PM**      **Rack 1, Tube 32****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1883u	-0.0526u	-0.3848u
Al 308.215	82.4594	79.8311	80.2205
As 188.980	2.1858	1.0797	7.9606
B 249.678	58.0064	56.9562	58.1805
Ba 389.178	11.3149	12.0699	11.9448
Be 313.042	-0.0030u	0.0021u	0.0076u
Ca 370.602	795.4	777.9	791.5
Cd 226.502	-0.0044u	-0.0934u	0.0151u
Co 228.615	0.5710	0.1679	0.2977
Cr 267.716	0.0978	0.0580	0.0413
Cu 324.754	0.4134	-0.0827u	0.3260
Fe 271.441	-6.6100u	0.5152	-2.0689u
K 766.491	200.217	197.251	200.015
Mg 279.078	526.938	517.075	524.789
Mn 257.610	0.6339	0.5710	0.6705
Mo 202.032	-0.3918u	0.0504	0.0729
Na 330.237	161510x	157477x	160404x
Ni 231.604	0.8195	-0.0127u	0.7608
Pb 220.353	-2.1457u	0.2999	-0.4019u
Sb 206.834	1.4473	-1.0324u	-0.9746u
Se 196.026	0.4226	1.4197	2.8313
Sn 189.925	-0.3290u	0.9830	4.2073
Sr 216.596	6.7805	6.7412	6.8517
Ti 334.941	0.0212u	-0.0728u	-0.0068u
Tl 190.794	-0.8118u	1.3907	4.5140
V 292.401	0.1543	0.4002	-0.1238u
Zn 206.200	3.4699	4.5398	5.1757

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2086b	ppb	0.1670	80.1	-38.2132
Al 308.215	80.8370b	ppb	1.4185	1.8	447.395
As 188.980	3.7420b	ppb	3.6950	98.7	-4.9293
B 249.678	57.7144b	ppb	0.6623	1.1	927.691
Ba 389.178	11.7765b	ppb	0.4046	3.4	280.524
Be 313.042	0.0022b	ppb	0.0053	237.4	-391.192
Ca 370.602	788.3b	ppb	9.206	1.2	2540
Cd 226.502	-0.0276b	ppb	0.0578	209.8	35.1377
Co 228.615	0.3455b	ppb	0.2058	59.6	12.1726
Cr 267.716	0.0657b	ppb	0.0290	44.2	24.0897
Cu 324.754	0.2189b	ppb	0.2648	121.0	273.480
Fe 271.441	-2.7212b	ppb	3.6071	132.6	102.730
K 766.491	199.161b	ppb	1.6573	0.8	8046.18
Mg 279.078	522.934b	ppb	5.1864	1.0	1257.64
Mn 257.610	0.6251b	ppb	0.0504	8.1	244.898
Mo 202.032	-0.0895b	ppb	0.2621	292.8	16.1473
Na 330.237	159797xb	ppb	2084.30	1.3	8784.16
Ni 231.604	0.5225b	ppb	0.4645	88.9	-4.2211
Pb 220.353	-0.7492b	ppb	1.2593	168.1	30.0851
Sb 206.834	-0.1866b	ppb	1.4153	758.6	3.4010
Se 196.026	1.5579b	ppb	1.2103	77.7	12.6244
Sn 189.925	1.6205b	ppb	2.3343	144.1	-10.7697
Sr 216.596	6.7911b	ppb	0.0560	0.8	107.725
Ti 334.941	-0.0195b	ppb	0.0482	247.9	-58.8073
Tl 190.794	1.6976b	ppb	2.6761	157.6	-13.8019
V 292.401	0.1436b	ppb	0.2622	182.6	-5.7748
Zn 206.200	4.3951b	ppb	0.8620	19.6	6.2548

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680-89727-a-21-d (Samp) 5/7/2013, 7:10:30 PM Rack 1, Tube 33

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1794u	-0.1528u	-0.2686u
Al 308.215	76.6714	76.3451	69.0997
As 188.980	1.7776	1.1869	6.1348
B 249.678	61.0560	61.8868	61.5312
Ba 389.178	18.6251	19.4151	19.6369
Be 313.042	0.0053u	0.0017u	-0.0042u
Ca 370.602	649.5	653.0	644.2
Cd 226.502	-0.0174u	-0.1442u	-0.1596u
Co 228.615	0.1323	0.6203	-0.0797u
Cr 267.716	0.5021	0.3954	0.3272
Cu 324.754	0.5143	0.7574	0.4659
Fe 271.441	12.2684	18.0023	7.0562
K 766.491	157.644	159.674	156.736
Mg 279.078	392.805	394.877	388.918
Mn 257.610	1.0362	1.0514	1.0306
Mo 202.032	0.2554	-0.6494u	0.0333
Na 330.237	158708x	159124x	156605x
Ni 231.604	0.4845	0.7521	0.6431
Pb 220.353	0.8278	2.7603	3.0397
Sb 206.834	5.5312	5.3411	1.1202
Se 196.026	-0.7111u	3.7255	5.9990
Sn 189.925	0.3562	-0.9054u	0.4707
Sr 216.596	3.3586	4.1709	3.3649
Ti 334.941	-0.0235u	-0.0454u	-0.0535u
Tl 190.794	-1.3218u	-3.3508u	1.2196
V 292.401	0.4042	0.0006u	-0.0695u
Zn 206.200	3.8191	3.7558	1.1019

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2003b	ppb	0.0607	30.3	-37.3789
Al 308.215	74.0387b	ppb	4.2804	5.8	415.847
As 188.980	3.0331b	ppb	2.7023	89.1	-5.2700
B 249.678	61.4913b	ppb	0.4169	0.7	978.755
Ba 389.178	19.2257b	ppb	0.5318	2.8	453.273
Be 313.042	0.0009b	ppb	0.0048	506.2	-393.508
Ca 370.602	648.9b	ppb	4.443	0.7	2092
Cd 226.502	-0.1071b	ppb	0.0781	72.9	31.9009
Co 228.615	0.2243b	ppb	0.3589	160.0	10.5370
Cr 267.716	0.4082b	ppb	0.0882	21.6	42.1588
Cu 324.754	0.5792b	ppb	0.1563	27.0	290.483
Fe 271.441	12.4423b	ppb	5.4751	44.0	130.996
K 766.491	158.018b	ppb	1.5044	1.0	6460.52
Mg 279.078	392.200b	ppb	3.0254	0.8	953.008
Mn 257.610	1.0394b	ppb	0.0108	1.0	354.463
Mo 202.032	-0.1202b	ppb	0.4716	392.3	15.8954
Na 330.237	158146xb	ppb	1350.03	0.9	8694.09
Ni 231.604	0.6266b	ppb	0.1346	21.5	-3.8980
Pb 220.353	2.2093b	ppb	1.2045	54.5	36.2367
Sb 206.834	3.9975b	ppb	2.4936	62.4	8.5707
Se 196.026	3.0045b	ppb	3.4127	113.6	13.4247
Sn 189.925	-0.0261b	ppb	0.7636	2920.3	-12.4415
Sr 216.596	3.6315b	ppb	0.4672	12.9	67.0665
Ti 334.941	-0.0408b	ppb	0.0155	38.0	-65.8703
Tl 190.794	-1.1510b	ppb	2.2899	199.0	-16.9671
V 292.401	0.1118b	ppb	0.2557	228.8	-6.7113
Zn 206.200	2.8923b	ppb	1.5508	53.6	37.8051

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**680-89727-a-22-g (Samp) 5/7/2013, 7:15:56 PM Rack 1, Tube 34****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1165u	-0.2423u	-0.5189u
Al 308.215	82.2925	80.5108	79.0610
As 188.980	3.2180	2.7940	4.3615
B 249.678	40.9387	39.7704	41.2630
Ba 389.178	16.3802	15.9754	16.0313
Be 313.042	-0.0004u	-0.0033u	-0.0046u
Ca 370.602	623.2	614.7	625.4
Cd 226.502	-0.0592u	0.0838	0.1879
Co 228.615	0.2620	0.4861	0.1994
Cr 267.716	0.3675	0.3668	0.3503
Cu 324.754	0.4659	0.0624	0.6296
Fe 271.441	12.0163	13.2799	11.1404
K 766.491	139.007	137.454	140.730
Mg 279.078	262.466	257.528	261.891
Mn 257.610	0.9173	0.8933	0.9108
Mo 202.032	-0.5333u	-1.0588u	0.2720
Na 330.237	160092x	157838x	160339x
Ni 231.604	1.5805	1.6575	1.3135
Pb 220.353	4.8655	6.1019	0.6638
Sb 206.834	-4.5083u	-3.3687u	-1.2746u
Se 196.026	-4.0542u	1.8597	2.4485
Sn 189.925	-0.1268u	0.3160	-1.3255u
Sr 216.596	3.1027	3.0587	3.1702
Ti 334.941	-0.0529u	-0.0894u	-0.0964u
Tl 190.794	1.8469	-2.0470u	-2.0580u
V 292.401	0.1119	0.1149	0.0427u
Zn 206.200	3.4997	2.0446	1.1853

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2926b	ppb	0.2058	70.4	-44.8197
Al 308.215	80.6214b	ppb	1.6186	2.0	446.341
As 188.980	3.4578b	ppb	0.8108	23.4	-5.0666
B 249.678	40.6574b	ppb	0.7850	1.9	696.981
Ba 389.178	16.1290b	ppb	0.2193	1.4	380.975
Be 313.042	-0.0028b	ppb	0.0021	76.4	-400.643
Ca 370.602	621.1b	ppb	5.639	0.9	2002
Cd 226.502	0.0708b	ppb	0.1241	175.2	39.2660
Co 228.615	0.3158b	ppb	0.1508	47.7	11.7913
Cr 267.716	0.3615b	ppb	0.0097	2.7	39.7134
Cu 324.754	0.3860b	ppb	0.2919	75.6	281.353
Fe 271.441	12.1455b	ppb	1.0756	8.9	130.456
K 766.491	139.063b	ppb	1.6386	1.2	5730.03
Mg 279.078	260.629b	ppb	2.7004	1.0	646.427
Mn 257.610	0.9071b	ppb	0.0124	1.4	317.843
Mo 202.032	-0.4400b	ppb	0.6703	152.3	13.2813
Na 330.237	159423xb	ppb	1378.15	0.9	8763.78
Ni 231.604	1.5172b	ppb	0.1805	11.9	-1.1344
Pb 220.353	3.8771b	ppb	2.8506	73.5	39.7052
Sb 206.834	-3.0505b	ppb	1.6401	53.8	-0.1227
Se 196.026	0.0847b	ppb	3.5965	4248.3	11.8097
Sn 189.925	-0.3788b	ppb	0.8493	224.2	-12.7989
Sr 216.596	3.1106b	ppb	0.0562	1.8	60.3732
Ti 334.941	-0.0796b	ppb	0.0234	29.4	-78.5502
Tl 190.794	-0.7527b	ppb	2.2513	299.1	-16.5242
V 292.401	0.0898b	ppb	0.0409	45.5	-7.2636
Zn 206.200	2.2432b	ppb	1.1699	52.2	37.7471

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**mb 680-275733/1-a (Samp)**      **5/7/2013, 7:21:22 PM**      **Rack 1, Tube 35**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0016u	-0.4370u	-0.1118u
Al 308.215	-0.6359u	-1.3256u	-0.8165u
As 188.980	3.4957	4.3741	-2.1875u
B 249.678	0.5679	0.6821	0.0371
Ba 389.178	-1.2961u	-0.0738u	-0.3813u
Be 313.042	-0.0066u	-0.0063u	-0.0144u
Ca 370.602	-2.084u	-4.417u	-6.724u
Cd 226.502	-0.0829u	-0.2081u	-0.1750u
Co 228.615	0.0207	0.4361	0.0251
Cr 267.716	-0.2814u	-0.2613u	-0.0965u
Cu 324.754	0.2156	-0.2645u	0.2779
Fe 271.441	-5.2756u	-1.9989u	-6.1936u
K 766.491	-1.8871u	-1.8427u	-2.2716u
Mg 279.078	-1.3117u	0.3662	2.4758
Mn 257.610	-0.2164u	-0.1773u	-0.1645u
Mo 202.032	-0.5577u	0.0982	0.7049
Na 330.237	-105.074u	116.761	-180.101u
Ni 231.604	-0.1342u	-0.4753u	-0.8344u
Pb 220.353	-1.1287u	0.5694	1.2494
Sb 206.834	1.4762	-0.5961u	2.1139
Se 196.026	-1.3769u	-7.3748u	-1.0436u
Sn 189.925	2.4325	-2.0760u	-0.3357u
Sr 216.596	0.1628	0.0411	-0.0333u
Ti 334.941	-0.0438u	-0.0154u	-0.0060u
Tl 190.794	-1.6255u	0.3629	-1.4971u
V 292.401	-0.0141u	0.2068	-0.2310u
Zn 206.200	0.1575	-1.3270u	2.0320

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1834	ppb	0.2264	123.4	-35.8463
Al 308.215	-0.9260	ppb	0.3577	38.6	68.0164
As 188.980	1.8941	ppb	3.5620	188.1	-5.8199
B 249.678	0.4290	ppb	0.3442	80.2	152.922
Ba 389.178	-0.5837	ppb	0.6358	108.9	-8.0256
Be 313.042	-0.0091	ppb	0.0046	50.6	-394.296
Ca 370.602	-4.408	ppb	2.320	52.6	-6.303
Cd 226.502	-0.1553	ppb	0.0649	41.8	30.8247
Co 228.615	0.1607	ppb	0.2386	148.5	9.6704
Cr 267.716	-0.2131	ppb	0.1015	47.6	6.2197
Cu 324.754	0.0763	ppb	0.2968	388.9	266.757
Fe 271.441	-4.4894	ppb	2.2051	49.1	99.3977
K 766.491	-2.0005	ppb	0.2358	11.8	293.479
Mg 279.078	0.5101	ppb	1.8978	372.0	40.3570
Mn 257.610	-0.1861	ppb	0.0270	14.5	24.0904
Mo 202.032	0.0818	ppb	0.6314	771.8	17.5481
Na 330.237	-56.1379	ppb	154.363	275.0	65.8990
Ni 231.604	-0.4813	ppb	0.3502	72.8	-7.3362
Pb 220.353	0.2300	ppb	1.2248	532.4	32.1190
Sb 206.834	0.9980	ppb	1.4168	142.0	4.8573
Se 196.026	-3.2651	ppb	3.5630	109.1	9.9566
Sn 189.925	0.0069	ppb	2.2737	32747.9	-12.4770
Sr 216.596	0.0569	ppb	0.0990	174.0	21.0168
Ti 334.941	-0.0217	ppb	0.0196	90.4	-48.4071
Tl 190.794	-0.9199	ppb	1.1128	121.0	-16.7077
V 292.401	-0.0128	ppb	0.2189	1713.8	-9.0087
Zn 206.200	0.2875	ppb	1.6833	585.5	0.4409

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

ics 680-275733/2-a (Samp)      5/7/2013, 7:26:59 PM      Rack 1, Tube 36  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	108.932	108.759	107.915
Al 308.215	10013.9	10019.6	10027.2
As 188.980	228.199	219.678	212.923
B 249.678	396.888	397.152	399.190
Ba 389.178	212.538	209.736	211.593
Be 313.042	108.040	107.623	107.720
Ca 370.602	10081	10057	10083
Cd 226.502	109.209	109.469	109.039
Co 228.615	107.969	108.783	108.750
Cr 267.716	214.943	214.053	213.639
Cu 324.754	212.415	217.801	212.238
Fe 271.441	10195.5	10177.6	10181.7
K 766.491	11141.4	11068.8	11059.0
Mg 279.078	10296.1	10249.5	10277.7
Mn 257.610	1111.97	1108.44	1107.06
Mo 202.032	206.713	206.926	208.049
Na 330.237	9836.91	9849.27	9686.74
Ni 231.604	216.090	213.268	212.894
Pb 220.353	102.342	105.694	103.711
Sb 206.834	101.925	101.920	101.369
Se 196.026	204.506	200.876	194.165
Sn 189.925	408.578	408.724	410.239
Sr 216.596	208.632	208.668	208.283
Ti 334.941	204.840	204.222	204.092
Tl 190.794	84.5799	83.2523	86.2337
V 292.401	208.443	207.627	207.074
Zn 206.200	224.608	225.222	226.264

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	108.536	ppb	0.5443	0.5	8753.62
Al 308.215	10020.2	ppb	6.6919	0.1	46587.0
As 188.980	220.266	ppb	7.6551	3.5	98.7525
B 249.678	397.743	ppb	1.2595	0.3	5512.78
Ba 389.178	211.289	ppb	1.4256	0.7	4957.57
Be 313.042	107.794	ppb	0.2183	0.2	204291
Ca 370.602	10074	ppb	14.81	0.1	31610
Cd 226.502	109.239	ppb	0.2162	0.2	4604.26
Co 228.615	108.501	ppb	0.4606	0.4	1472.00
Cr 267.716	214.212	ppb	0.6665	0.3	11339.3
Cu 324.754	214.152	ppb	3.1616	1.5	10373.3
Fe 271.441	10184.9	ppb	9.3563	0.1	19128.8
K 766.491	11089.7	ppb	44.9950	0.4	427765
Mg 279.078	10274.4	ppb	23.4615	0.2	23959.3
Mn 257.610	1109.15	ppb	2.5326	0.2	296719
Mo 202.032	207.229	ppb	0.7181	0.3	1709.95
Na 330.237	9790.97	ppb	90.4827	0.9	595.704
Ni 231.604	214.084	ppb	1.7475	0.8	658.726
Pb 220.353	103.916	ppb	1.6852	1.6	247.700
Sb 206.834	101.738	ppb	0.3196	0.3	129.760
Se 196.026	199.849	ppb	5.2464	2.6	122.673
Sn 189.925	409.180	ppb	0.9196	0.2	402.763
Sr 216.596	208.528	ppb	0.2124	0.1	2696.47
Ti 334.941	204.384	ppb	0.3996	0.2	62821.4
Tl 190.794	84.6886	ppb	1.4937	1.8	76.0566
V 292.401	207.715	ppb	0.6887	0.3	6024.29
Zn 206.200	225.365	ppb	0.8369	0.4	366.961

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Cont Calib Verif (CCV) 5/7/2013, 7:32:26 PM Rack 1, Tube 37  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	481.420	483.068	480.101
Al 308.215	4770.32	4807.90	4789.31
As 188.980	498.780	502.332	502.065
B 249.678	494.759	501.420	499.163
Ba 389.178	5029.83	5058.79	5038.42
Be 313.042	505.376	504.880	505.926
Ca 370.602	4924	4974	4947
Cd 226.502	508.124	513.195	509.631
Co 228.615	513.996	517.602	514.708
Cr 267.716	5075.88	5108.78	5078.32
Cu 324.754	4992.44	5101.60	4859.69
Fe 271.441	4869.36	4901.05	4859.30
K 766.491	9997.62	10025.1	9985.27
Mg 279.078	4872.88	4904.44	4894.21
Mn 257.610	5184.80	5231.87	5177.22
Mo 202.032	488.098	496.112	492.759
Na 330.237	6918.19	7102.20	7061.04
Ni 231.604	2545.94	2578.85	2574.82
Pb 220.353	488.053	491.880	490.308
Sb 206.834	950.448	962.783	955.478
Se 196.026	4835.36	4878.26	4863.19
Sn 189.925	4985.87	4978.97	4993.66
Sr 216.596	2477.91	2499.50	2488.02
Ti 334.941	487.458	490.369	487.385
Tl 190.794	4939.03	4999.04	4969.80
V 292.401	4884.66	4909.16	4882.21
Zn 206.200	2563.26	2584.17	2578.28

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	481.530	ppb	1.4865	0.3	38860.0	96.30594
Al 308.215	4789.18	ppb	18.7894	0.4	22277.4	95.78354
As 188.980	501.059	ppb	1.9786	0.4	233.239	100.21184
B 249.678	498.448	ppb	3.3875	0.7	6881.85	19.93790Q
Ba 389.178	5042.35	ppb	14.8748	0.3	117191	100.84690
Be 313.042	505.394	ppb	0.5233	0.1	959130	101.07881
Ca 370.602	4948	ppb	25.22	0.5	15785	98.96125
Cd 226.502	510.317	ppb	2.6045	0.5	21213.0	102.06331
Co 228.615	515.436	ppb	1.9097	0.4	6983.94	103.08712
Cr 267.716	5087.66	ppb	18.3339	0.4	268761	101.75323
Cu 324.754	4984.58	ppb	121.151	2.4	235409	99.69154
Fe 271.441	4876.57	ppb	21.7880	0.4	9342.43	97.53143
K 766.491	10002.7	ppb	20.3734	0.2	385869	100.02652
Mg 279.078	4890.51	ppb	16.1035	0.3	11342.1	97.81020
Mn 257.610	5197.96	ppb	29.6090	0.6	1389733	103.95927
Mo 202.032	492.323	ppb	4.0251	0.8	4030.90	98.46461
Na 330.237	7027.14	ppb	96.5748	1.4	426.048	93.69521
Ni 231.604	2566.53	ppb	17.9538	0.7	7958.38	102.66140
Pb 220.353	490.080	ppb	1.9234	0.4	1050.77	98.01608
Sb 206.834	956.236	ppb	6.2023	0.6	1243.66	95.62363
Se 196.026	4858.94	ppb	21.7606	0.4	2700.72	97.17872
Sn 189.925	4986.17	ppb	7.3455	0.1	5047.51	99.72337
Sr 216.596	2488.48	ppb	10.8018	0.4	31956.7	99.53915
Ti 334.941	488.404	ppb	1.7020	0.3	150078	97.68079
Tl 190.794	4969.29	ppb	30.0056	0.6	5497.07	99.38580
V 292.401	4892.01	ppb	14.8998	0.3	142923	97.84018
Zn 206.200	2575.24	ppb	10.7828	0.4	4181.75	103.00941



E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Blank (CCB) 5/7/2013, 7:37:49 PM Rack 1, Tube 38

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3375u	0.3503	-0.0953u
Al 308.215	-3.0511u	1.6794	-1.1539u
As 188.980	-1.6785u	2.8225	2.6491
B 249.678	10.0815	8.1708	7.9692
Ba 389.178	-0.0378u	-0.8007u	-0.8541u
Be 313.042	-0.0083u	-0.0098u	-0.0020u
Ca 370.602	-1.692u	-3.244u	-1.072u
Cd 226.502	0.0372	-0.0296u	-0.1501u
Co 228.615	0.7040	0.2268	0.5174
Cr 267.716	-0.2408u	-0.1642u	-0.3297u
Cu 324.754	0.1883	0.5164	0.2257
Fe 271.441	1.2967	0.2703	-4.6442u
K 766.491	-2.0551u	-2.5780u	-1.7239u
Mg 279.078	0.1763	-1.8562u	-2.1565u
Mn 257.610	-0.1292u	-0.1554u	-0.1229u
Mo 202.032	0.0280	0.3909	0.5535
Na 330.237	-85.0521u	59.8609	-47.5265u
Ni 231.604	-0.3968u	0.0531	-0.7411u
Pb 220.353	0.7028	2.3761	1.6327
Sb 206.834	9.1525	6.9516	5.6850
Se 196.026	-2.3602u	1.0816	1.5511
Sn 189.925	1.0446	1.0087	2.4954
Sr 216.596	-0.4141u	0.0404	0.3061
Ti 334.941	0.0740	0.0634	0.0297
Tl 190.794	2.2440	-2.5515u	-0.0817u
V 292.401	-0.1478u	-0.3742u	-0.0535u
Zn 206.200	0.6406	1.4261	0.6136

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0275	ppb	0.3489	1269.3	-23.2179	-0.02749
Al 308.215	-0.8419	ppb	2.3806	282.8	68.4287	-0.84187
As 188.980	1.2644	ppb	2.5501	201.7	-6.1217	1.26437
B 249.678	8.7405	ppb	1.1657	13.3	265.331	8.74051
Ba 389.178	-0.5642	ppb	0.4567	80.9	-7.5724	-0.56420
Be 313.042	-0.0067	ppb	0.0042	62.0	-389.816	-0.00672
Ca 370.602	-2.003	ppb	1.119	55.9	1.313	-2.00278
Cd 226.502	-0.0475	ppb	0.0950	199.9	35.3001	-0.04750
Co 228.615	0.4827	ppb	0.2405	49.8	14.0173	0.48273
Cr 267.716	-0.2449	ppb	0.0829	33.8	4.5418	-0.24489
Cu 324.754	0.3101	ppb	0.1796	57.9	277.794	0.31012
Fe 271.441	-1.0257	ppb	3.1754	309.6	105.909	-1.02574
K 766.491	-2.1190	ppb	0.4306	20.3	288.910	-2.11902
Mg 279.078	-1.2788	ppb	1.2691	99.2	36.1885	-1.27878
Mn 257.610	-0.1358	ppb	0.0172	12.7	37.5130	-0.13582
Mo 202.032	0.3241	ppb	0.2690	83.0	19.5292	0.32412
Na 330.237	-24.2392	ppb	75.2108	310.3	67.6326	-24.23921
Ni 231.604	-0.3616	ppb	0.3983	110.1	-6.9647	-0.36159
Pb 220.353	1.5705	ppb	0.8384	53.4	34.9057	1.57052
Sb 206.834	7.2631	ppb	1.7546	24.2	12.5884	7.26306
Se 196.026	0.0908	ppb	2.1356	2351.3	11.8127	0.09083
Sn 189.925	1.5162	ppb	0.8481	55.9	-10.9454	1.51623
Sr 216.596	-0.0225	ppb	0.3642	1615.5	19.9847	-0.02254
Ti 334.941	0.0557	ppb	0.0231	41.5	-24.6220	0.05570
Tl 190.794	-0.1297	ppb	2.3981	1848.6	-15.8303	-0.12973
V 292.401	-0.1919	ppb	0.1648	85.9	-14.2919	-0.19185
Zn 206.200	0.8935	ppb	0.4615	51.7	30.5473	0.89346

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

lb 680-274429/21-h (Samp) 5/7/2013, 7:43:13 PM Rack 1, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2022u	-0.1432u	-0.2015u
Al 308.215	-2.1773u	-0.6121u	0.3675
As 188.980	5.2822	-1.4671u	6.2604
B 249.678	17.2328	17.4979	17.5270
Ba 389.178	-0.4024u	0.6020	0.0775
Be 313.042	-0.0022u	-0.0052u	-0.0045u
Ca 370.602	115.4	114.0	113.2
Cd 226.502	-0.1211u	-0.1428u	0.0609
Co 228.615	0.4015	-0.2520u	0.2922
Cr 267.716	-0.1852u	-0.2225u	0.0567
Cu 324.754	0.4942	0.7799	0.7938
Fe 271.441	2.1904	-2.5848u	-4.8863u
K 766.491	39.9159	41.5097	40.7416
Mg 279.078	24.0216	25.7469	25.1104
Mn 257.610	-0.0646u	-0.0400u	-0.0620u
Mo 202.032	0.3507	-0.0741u	0.2318
Na 330.237	155685x	154770x	155441x
Ni 231.604	-0.4363u	-0.0925u	1.1540
Pb 220.353	1.0579	1.4372	3.8555
Sb 206.834	3.7417	1.0246	3.1186
Se 196.026	-2.6355u	-2.8229u	7.5455
Sn 189.925	-0.8996u	-1.5290u	-3.2480u
Sr 216.596	0.3664	0.8629	0.4912
Ti 334.941	0.0201u	-0.0145u	-0.0519u
Tl 190.794	0.1038	-0.4922u	-2.1989u
V 292.401	-0.2789u	-0.1714u	0.2291
Zn 206.200	3.2474	1.6703	2.1361

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1823b	ppb	0.0339	18.6	-35.7614
Al 308.215	-0.8073b	ppb	1.2836	159.0	68.5665
As 188.980	3.3585b	ppb	4.2076	125.3	-5.1175
B 249.678	17.4192b	ppb	0.1621	0.9	382.708
Ba 389.178	0.0923b	ppb	0.5023	544.0	7.7501
Be 313.042	-0.0040b	ppb	0.0016	39.4	-402.674
Ca 370.602	114.2b	ppb	1.091	1.0	374.6
Cd 226.502	-0.0676b	ppb	0.1119	165.4	33.4996
Co 228.615	0.1473b	ppb	0.3500	237.7	9.4916
Cr 267.716	-0.1170b	ppb	0.1516	129.6	14.3486
Cu 324.754	0.6893b	ppb	0.1691	24.5	295.679
Fe 271.441	-1.7602b	ppb	3.6096	205.1	104.485
K 766.491	40.7224b	ppb	0.7971	2.0	1940.00
Mg 279.078	24.9596b	ppb	0.8725	3.5	97.3252
Mn 257.610	-0.0556b	ppb	0.0135	24.3	58.2405
Mo 202.032	0.1695b	ppb	0.2191	129.3	18.2648
Na 330.237	155299xb	ppb	473.969	0.3	8538.83
Ni 231.604	0.2084b	ppb	0.8368	401.5	-5.1960
Pb 220.353	2.1169b	ppb	1.5176	71.7	36.0424
Sb 206.834	2.6283b	ppb	1.4234	54.2	6.8710
Se 196.026	0.6957b	ppb	5.9328	852.8	12.1473
Sn 189.925	-1.8922b	ppb	1.2156	64.2	-14.3367
Sr 216.596	0.5735b	ppb	0.2583	45.0	27.6697
Ti 334.941	-0.0154b	ppb	0.0360	233.3	-59.6587
Tl 190.794	-0.8625b	ppb	1.1952	138.6	-16.6443
V 292.401	-0.0737b	ppb	0.2677	363.1	-12.1178
Zn 206.200	2.3513b	ppb	0.8103	34.5	37.9234

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

lb2 680-274429/22-f (Samp) 5/7/2013, 7:48:37 PM Rack 1, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0066	-0.1103u	-0.4604u
Al 308.215	1.9832	4.9070	5.2800
As 188.980	2.4944	3.2037	-5.1102u
B 249.678	83.1858	83.0318	84.6791
Ba 389.178	-0.0222u	-0.5450u	-0.1309u
Be 313.042	0.0062	-0.0088u	-0.0081u
Ca 370.602	546.4	544.0	555.1
Cd 226.502	-0.1239u	-0.0013u	-0.1189u
Co 228.615	0.2930	-0.1110u	-0.0926u
Cr 267.716	0.1712	0.1016	-0.0728u
Cu 324.754	0.1519	0.5605	0.4806
Fe 271.441	-0.5612u	-0.7913u	-5.3516u
K 766.491	88.2991	88.7665	90.8898
Mg 279.078	141.919	140.345	140.387
Mn 257.610	-0.0546u	-0.0582u	-0.0418u
Mo 202.032	-0.1078u	0.0774	-0.0552u
Na 330.237	4477.78	4781.87	4479.14
Ni 231.604	-0.2885u	0.6858	1.1563
Pb 220.353	-1.4589u	0.3631	-0.6227u
Sb 206.834	3.2041	-4.2994u	2.7328
Se 196.026	-2.2595u	-1.1297u	-6.3659u
Sn 189.925	1.0085	1.9439	3.7861
Sr 216.596	0.9887	1.1989	1.1433
Ti 334.941	0.0592	-0.0097u	-0.0341u
Tl 190.794	0.6604	-0.0327u	0.0099
V 292.401	0.2431	-0.1581u	-0.0217u
Zn 206.200	5.1330	5.2965	4.1516

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1880	ppb	0.2430	129.3	-36.2646
Al 308.215	4.0568	ppb	1.8054	44.5	91.0966
As 188.980	0.1960	ppb	4.6090	2351.8	-6.6299
B 249.678	83.6322	ppb	0.9099	1.1	1278.22
Ba 389.178	-0.2327	ppb	0.2759	118.6	0.5000
Be 313.042	-0.0036	ppb	0.0085	238.2	-384.073
Ca 370.602	548.5	ppb	5.852	1.1	1770
Cd 226.502	-0.0814	ppb	0.0694	85.3	33.8697
Co 228.615	0.0298	ppb	0.2281	766.0	7.9166
Cr 267.716	0.0666	ppb	0.1257	188.6	21.0886
Cu 324.754	0.3977	ppb	0.2165	54.4	281.908
Fe 271.441	-2.2347	ppb	2.7018	120.9	103.580
K 766.491	89.3184	ppb	1.3807	1.5	3812.88
Mg 279.078	140.884	ppb	0.8966	0.6	367.445
Mn 257.610	-0.0515	ppb	0.0086	16.7	61.3601
Mo 202.032	-0.0286	ppb	0.0954	334.2	16.6457
Na 330.237	4579.60	ppb	175.179	3.8	318.694
Ni 231.604	0.5179	ppb	0.7369	142.3	-4.2357
Pb 220.353	-0.5728	ppb	0.9120	159.2	30.4505
Sb 206.834	0.5458	ppb	4.2027	769.9	4.3095
Se 196.026	-3.2517	ppb	2.7555	84.7	9.9640
Sn 189.925	2.2462	ppb	1.4132	62.9	-10.2023
Sr 216.596	1.1103	ppb	0.1089	9.8	34.6522
Ti 334.941	0.0051	ppb	0.0484	944.8	-39.8579
Tl 190.794	0.2125	ppb	0.3884	182.8	-15.4503
V 292.401	0.0211	ppb	0.2040	967.4	-7.9937
Zn 206.200	4.8604	ppb	0.6192	12.7	37.0135

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**680-89660-a-1-n (Samp)**                      **5/7/2013, 7:54:02 PM**                      **Rack 1, Tube 41****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1936u	-0.2522u	-0.1726u
Al 308.215	44.3609	44.4318	43.2601
As 188.980	12.8177	14.5774	5.0122
B 249.678	9.8692	9.1684	8.6117
Ba 389.178	94.8739	94.5654	95.2181
Be 313.042	0.0849	0.0906	0.0786
Ca 370.602	32257	32248	32309
Cd 226.502	3.5517	3.9096	3.7820
Co 228.615	3.0237	2.7119	3.1963
Cr 267.716	-0.0696	0.2815	0.0567
Cu 324.754	8.9258	8.4278	8.7816
Fe 271.441	982.901	975.842	984.247
K 766.491	684.951	687.357	689.337
Mg 279.078	2529.20	2533.55	2535.28
Mn 257.610	737.920	738.197	738.877
Mo 202.032	0.5424	-0.2751u	-0.0577u
Na 330.237	158764x	158578x	158077x
Ni 231.604	5.2588	3.6858	3.4875
Pb 220.353	178.221	174.936	175.855
Sb 206.834	-2.5179u	5.7842	2.6067
Se 196.026	1.9469	0.7069	-7.0799u
Sn 189.925	1.9808	-0.4984u	0.0109
Sr 216.596	170.078	169.042	170.035
Ti 334.941	0.0390	0.0774	0.0521
Tl 190.794	-0.5053u	-3.0860u	-0.3378u
V 292.401	-0.1537u	0.2317	0.1064
Zn 206.200	95.2411	95.9177	93.6900

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2061b	ppb	0.0413	20.0	-42.4544
Al 308.215	44.0176b	ppb	0.6569	1.5	276.550
As 188.980	10.8024b	ppb	5.0910	47.1	-1.3465
B 249.678	9.2164b	ppb	0.6301	6.8	270.445
Ba 389.178	94.8858b	ppb	0.3265	0.3	2218.12
Be 313.042	0.0847b	ppb	0.0060	7.1	-223.753
Ca 370.602	32271b	ppb	33.00	0.1	103636
Cd 226.502	3.7478b	ppb	0.1814	4.8	195.358
Co 228.615	2.9773b	ppb	0.2455	8.2	47.7057
Cr 267.716	0.0895b	ppb	0.1778	198.6	29.0418
Cu 324.754	8.7117b	ppb	0.2562	2.9	674.456
Fe 271.441	980.997b	ppb	4.5142	0.5	1938.33
K 766.491	687.215b	ppb	2.1965	0.3	26855.6
Mg 279.078	2532.68b	ppb	3.1304	0.1	5927.78
Mn 257.610	738.331b	ppb	0.4922	0.1	197482
Mo 202.032	0.0699b	ppb	0.4234	605.9	17.3949
Na 330.237	158473xb	ppb	355.292	0.2	8710.86
Ni 231.604	4.1440b	ppb	0.9705	23.4	7.0407
Pb 220.353	176.338b	ppb	1.6950	1.0	398.485
Sb 206.834	1.9577b	ppb	4.1889	214.0	6.0765
Se 196.026	-1.4753b	ppb	4.8931	331.7	11.1571
Sn 189.925	0.4978b	ppb	1.3093	263.0	-11.8935
Sr 216.596	169.718b	ppb	0.5861	0.3	2207.64
Ti 334.941	0.0562b	ppb	0.0195	34.7	-25.3599
Tl 190.794	-1.3097b	ppb	1.5406	117.6	-18.3972
V 292.401	0.0615b	ppb	0.1966	319.9	-8.1513
Zn 206.200	94.9496b	ppb	1.1421	140.2	357.994

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680-89498-a-21-i (Samp) 5/7/2013, 7:59:38 PM Rack 1, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3802u	0.1243	-0.2952u
Al 308.215	7.0562	7.6924	8.0926
As 188.980	51.0668	51.9523	45.6911
B 249.678	57.7974	57.2686	58.1595
Ba 389.178	13.1096	13.4435	13.0127
Be 313.042	0.0012u	-0.0012u	0.0101u
Ca 370.602	761.4	767.7	765.5
Cd 226.502	127.628	127.475	127.375
Co 228.615	15.5458	15.0780	15.7851
Cr 267.716	185.115	185.694	185.276
Cu 324.754	0.9597	1.2296	0.8217
Fe 271.441	-4.9544u	-0.6432	-2.8572u
K 766.491	267.276	267.009	265.057
Mg 279.078	131.508	137.884	135.819
Mn 257.610	1.3856	1.3414	1.3427
Mo 202.032	2.9622	2.1445	2.1451
Na 330.237	293466x	295542x	296320x
Ni 231.604	22.2779	21.8466	21.6979
Pb 220.353	28.2028	29.0895	28.2909
Sb 206.834	-0.2820	-0.7535	-0.4084
Se 196.026	6.0143	-2.0881u	-0.6957u
Sn 189.925	-3.0560u	-0.9155u	1.1265
Sr 216.596	3.3986	2.9126	3.2583
Ti 334.941	-0.0376u	0.0530u	0.0018u
Tl 190.794	-4.6731u	-1.6090u	3.8152
V 292.401	0.4113u	-0.2724u	0.0152u
Zn 206.200	36.7101	37.3681	36.6486

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1837b	ppb	0.2701	147.0	-36.0077
Al 308.215	7.6138b	ppb	0.5227	6.9	107.900
As 188.980	49.5701b	ppb	3.3884	6.8	17.0278
B 249.678	57.7418b	ppb	0.4481	0.8	928.061
Ba 389.178	13.1886b	ppb	0.2260	1.7	312.325
Be 313.042	0.0034b	ppb	0.0060	177.5	-405.226
Ca 370.602	764.9b	ppb	3.154	0.4	2465
Cd 226.502	127.492b	ppb	0.1276	0.1	5321.17
Co 228.615	15.4697b	ppb	0.3597	2.3	217.178
Cr 267.716	185.362b	ppb	0.2986	0.2	9814.31
Cu 324.754	1.0037b	ppb	0.2075	20.7	310.576
Fe 271.441	-2.8182b	ppb	2.1559	76.5	105.506
K 766.491	266.447b	ppb	1.2116	0.5	10639.4
Mg 279.078	135.070b	ppb	3.2531	2.4	353.871
Mn 257.610	1.3565b	ppb	0.0251	1.9	435.909
Mo 202.032	2.4173b	ppb	0.4719	19.5	36.6410
Na 330.237	295109xb	ppb	1475.47	0.5	16163.8
Ni 231.604	21.9408b	ppb	0.3013	1.4	62.2410
Pb 220.353	28.5277b	ppb	0.4885	1.7	90.9465
Sb 206.834	-0.4813b	ppb	0.2440	50.7	5.2368
Se 196.026	1.0769b	ppb	4.3322	402.3	12.3585
Sn 189.925	-0.9483b	ppb	2.0915	220.5	-13.3178
Sr 216.596	3.1899b	ppb	0.2501	7.8	60.8563
Ti 334.941	0.0058b	ppb	0.0454	789.0	-64.5719
Tl 190.794	-0.8223b	ppb	4.2985	522.7	-16.5943
V 292.401	0.0514b	ppb	0.3433	668.3	-22.3068
Zn 206.200	36.9089b	ppb	0.3988	141.1	58.6694

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**680-89498-a-21-j ms (Samp) 5/7/2013, 8:05:04 PM Rack 1, Tube 43****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	112.940	113.619	113.519
Al 308.215	1038.47	1045.31	1039.26
As 188.980	159.893	153.379	158.487
B 249.678	243.892	246.858	247.761
Ba 389.178	114.991	115.224	116.449
Be 313.042	107.126	107.750	107.636
Ca 370.602	10777	10805	10787
Cd 226.502	209.953	211.308	210.757
Co 228.615	120.316	121.095	121.225
Cr 267.716	258.597	259.791	259.376
Cu 324.754	107.197	107.979	107.502
Fe 271.441	10262.3	10309.4	10274.7
K 766.491	13090.0	13122.3	13102.4
Mg 279.078	10216.5	10256.7	10234.7
Mn 257.610	1114.12	1119.57	1117.28
Mo 202.032	106.135	106.128	106.941
Na 330.237	246397x	247671x	247293x
Ni 231.604	126.608	124.343	123.411
Pb 220.353	125.042	127.524	128.100
Sb 206.834	100.551	102.181	106.878
Se 196.026	113.433	107.676	107.291
Sn 189.925	100.175	98.4763	100.470
Sr 216.596	107.426	108.446	107.744
Ti 334.941	101.945	102.587	102.587
Tl 190.794	24.9831	21.9904	21.1164
V 292.401	104.672	104.470	104.459
Zn 206.200	142.168	141.757	140.156

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	113.359b	ppb	0.3667	0.3	9147.95
Al 308.215	1041.01b	ppb	3.7413	0.4	4912.74
As 188.980	157.253b	ppb	3.4280	2.2	68.5854
B 249.678	246.170b	ppb	2.0242	0.8	3462.66
Ba 389.178	115.555b	ppb	0.7833	0.7	2732.59
Be 313.042	107.504b	ppb	0.3320	0.3	203730
Ca 370.602	10790b	ppb	14.32	0.1	33881
Cd 226.502	210.673b	ppb	0.6816	0.3	8808.51
Co 228.615	120.879b	ppb	0.4917	0.4	1640.56
Cr 267.716	259.255b	ppb	0.6060	0.2	13723.3
Cu 324.754	107.559b	ppb	0.3945	0.4	5342.60
Fe 271.441	10282.1b	ppb	24.3916	0.2	19311.4
K 766.491	13104.9b	ppb	16.2930	0.1	505428
Mg 279.078	10236.0b	ppb	20.0954	0.2	23872.4
Mn 257.610	1116.99b	ppb	2.7358	0.2	298812
Mo 202.032	106.402b	ppb	0.4674	0.4	885.903
Na 330.237	247120xb	ppb	654.324	0.3	13541.0
Ni 231.604	124.787b	ppb	1.6439	1.3	381.632
Pb 220.353	126.889b	ppb	1.6247	1.3	295.498
Sb 206.834	103.203b	ppb	3.2848	3.2	133.734
Se 196.026	109.467b	ppb	3.4406	3.1	72.6851
Sn 189.925	99.7070b	ppb	1.0760	1.1	88.8120
Sr 216.596	107.872b	ppb	0.5218	0.5	1408.19
Ti 334.941	102.373b	ppb	0.3703	0.4	31450.3
Tl 190.794	22.6966b	ppb	2.0278	8.9	7.1909
V 292.401	104.534b	ppb	0.1199	0.1	3015.05
Zn 206.200	141.361b	ppb	1.0628	0.8	337.878

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**680-89498-a-21-k msd (Samp) 5/7/2013, 8:10:29 PM Rack 1, Tube 44****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	101.753	102.130	101.557
Al 308.215	1024.46	1028.13	1020.92
As 188.980	151.880	143.896	152.033
B 249.678	245.632	246.229	245.796
Ba 389.178	113.210	113.183	113.444
Be 313.042	105.300	105.311	105.001
Ca 370.602	10602	10615	10560
Cd 226.502	210.337	211.407	209.634
Co 228.615	120.182	119.229	117.910
Cr 267.716	259.637	259.915	259.486
Cu 324.754	105.721	105.846	105.368
Fe 271.441	10084.3	10095.7	10050.6
K 766.491	12910.1	12851.0	12834.8
Mg 279.078	10034.7	10044.9	9994.63
Mn 257.610	1094.86	1095.94	1091.24
Mo 202.032	105.024	104.490	103.646
Na 330.237	251638x	251705x	250831x
Ni 231.604	123.761	122.725	123.164
Pb 220.353	123.403	128.601	125.264
Sb 206.834	100.001	103.937	100.360
Se 196.026	102.165	103.626	104.356
Sn 189.925	100.807	96.8922	97.7685
Sr 216.596	106.294	107.267	106.214
Ti 334.941	100.632	100.588	100.282
Tl 190.794	19.8786	19.9019	21.2346
V 292.401	102.786	102.416	102.324
Zn 206.200	138.547	138.960	135.330

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	101.813b	ppb	0.2913	0.3	8214.08
Al 308.215	1024.50b	ppb	3.6057	0.4	4835.95
As 188.980	149.270b	ppb	4.6546	3.1	64.7609
B 249.678	245.885b	ppb	0.3085	0.1	3459.09
Ba 389.178	113.279b	ppb	0.1431	0.1	2678.86
Be 313.042	105.204b	ppb	0.1756	0.2	199363
Ca 370.602	10592b	ppb	28.50	0.3	33263
Cd 226.502	210.459b	ppb	0.8927	0.4	8798.85
Co 228.615	119.107b	ppb	1.1412	1.0	1616.64
Cr 267.716	259.679b	ppb	0.2180	0.1	13745.6
Cu 324.754	105.645b	ppb	0.2477	0.2	5252.17
Fe 271.441	10076.9b	ppb	23.4558	0.2	18928.1
K 766.491	12865.3b	ppb	39.6165	0.3	496195
Mg 279.078	10024.8b	ppb	26.5835	0.3	23380.6
Mn 257.610	1094.01b	ppb	2.4644	0.2	292667
Mo 202.032	104.387b	ppb	0.6947	0.7	869.445
Na 330.237	251391xb	ppb	486.682	0.2	13774.0
Ni 231.604	123.217b	ppb	0.5200	0.4	376.753
Pb 220.353	125.756b	ppb	2.6338	2.1	293.141
Sb 206.834	101.433b	ppb	2.1760	2.1	131.557
Se 196.026	103.382b	ppb	1.1153	1.1	69.3122
Sn 189.925	98.4893b	ppb	2.0546	2.1	87.5780
Sr 216.596	106.592b	ppb	0.5862	0.5	1391.69
Ti 334.941	100.501b	ppb	0.1909	0.2	30873.5
Tl 190.794	20.3384b	ppb	0.7763	3.8	4.6199
V 292.401	102.509b	ppb	0.2444	0.2	2956.00
Zn 206.200	137.612b	ppb	1.9873	1.4	227.742

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**lb 680-274576/12-f (Samp)**      **5/7/2013, 8:16:05 PM**      **Rack 1, Tube 45**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3865u	-0.0669u	-0.2290u
Al 308.215	-1.1520u	-4.3600u	-1.2074u
As 188.980	3.5589	1.2019	-0.6154u
B 249.678	15.9769	15.5156	15.2978
Ba 389.178	-0.3818u	-0.3097u	-0.3672u
Be 313.042	-0.0055u	-0.0000u	-0.0045u
Ca 370.602	94.03	95.30	97.52
Cd 226.502	0.0308	0.0261	-0.0025u
Co 228.615	0.2570	0.2109	-0.4812u
Cr 267.716	-0.3255u	-0.3035u	-0.1066u
Cu 324.754	0.6272	0.4608	0.1496
Fe 271.441	0.8338	1.0831	2.1468
K 766.491	38.7265	38.7693	39.0008
Mg 279.078	19.2880	21.7884	22.5566
Mn 257.610	-0.0285u	-0.0304u	-0.0002u
Mo 202.032	0.0188	0.2349	0.5069
Na 330.237	159128x	158320x	158873x
Ni 231.604	0.4407	0.8882	0.7354
Pb 220.353	1.6921	1.3268	-0.5881u
Sb 206.834	1.2405	0.7394	1.7323
Se 196.026	-3.6630u	1.6219	-4.7001u
Sn 189.925	0.6756	-0.8260u	0.2374
Sr 216.596	0.1872	0.1495	-0.1512u
Ti 334.941	-0.0088u	-0.0045u	-0.0528u
Tl 190.794	-0.1488u	-1.4676u	1.1663
V 292.401	-0.0717u	-0.1010u	-0.0293u
Zn 206.200	3.0663	4.3684	3.9454

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2274b	ppb	0.1598	70.3	-39.3985
Al 308.215	-2.2398b	ppb	1.8364	82.0	61.9382
As 188.980	1.3818b	ppb	2.0929	151.5	-6.0648
B 249.678	15.5968b	ppb	0.3468	2.2	358.056
Ba 389.178	-0.3529b	ppb	0.0381	10.8	-2.5992
Be 313.042	-0.0033b	ppb	0.0029	87.0	-401.900
Ca 370.602	95.62b	ppb	1.766	1.8	314.7
Cd 226.502	0.0181b	ppb	0.0180	99.6	37.0421
Co 228.615	-0.0044b	ppb	0.4136	9343.1	7.4326
Cr 267.716	-0.2452b	ppb	0.1205	49.2	7.6416
Cu 324.754	0.4125b	ppb	0.2424	58.8	282.624
Fe 271.441	1.3546b	ppb	0.6973	51.5	110.271
K 766.491	38.8322b	ppb	0.1476	0.4	1867.16
Mg 279.078	21.2110b	ppb	1.7091	8.1	88.5901
Mn 257.610	-0.0197b	ppb	0.0169	86.0	67.7797
Mo 202.032	0.2535b	ppb	0.2446	96.5	18.9519
Na 330.237	158774xb	ppb	413.239	0.3	8728.35
Ni 231.604	0.6881b	ppb	0.2275	33.1	-3.7075
Pb 220.353	0.8103b	ppb	1.2247	151.2	33.3254
Sb 206.834	1.2374b	ppb	0.4965	40.1	5.1498
Se 196.026	-2.2471b	ppb	3.3905	150.9	10.5197
Sn 189.925	0.0290b	ppb	0.7722	2663.6	-12.3856
Sr 216.596	0.0618b	ppb	0.1854	300.0	21.0687
Ti 334.941	-0.0220b	ppb	0.0268	121.6	-61.9917
Tl 190.794	-0.1500b	ppb	1.3170	877.8	-15.8534
V 292.401	-0.0673b	ppb	0.0361	53.6	-11.9880
Zn 206.200	3.7933b	ppb	0.6642	17.5	35.2750



E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

lb2 680-274576/13-e (Samp) 5/7/2013, 8:21:32 PM Rack 1, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0944	-0.1553u	-0.4678u
Al 308.215	2.2928	2.1708	2.5020
As 188.980	-1.2896u	-1.8439u	10.8358
B 249.678	85.5366	84.4929	85.3002
Ba 389.178	0.3807	0.4675	0.2194
Be 313.042	0.0039	-0.0096u	-0.0014u
Ca 370.602	572.4	571.3	573.2
Cd 226.502	1.2453	1.4251	1.1337
Co 228.615	0.1019	-0.3930u	0.4288
Cr 267.716	-0.0577u	0.0347	0.3589
Cu 324.754	2.8012	2.7250	2.9080
Fe 271.441	6.4494	12.2374	10.3158
K 766.491	96.3779	97.2684	97.8698
Mg 279.078	145.655	141.967	146.241
Mn 257.610	0.2023	0.2267	0.2025
Mo 202.032	-0.0751u	-0.4898u	-0.4372u
Na 330.237	4980.86	5060.71	5026.84
Ni 231.604	0.7135	0.2361	-0.3086u
Pb 220.353	1.8620	-0.8045u	-2.4818u
Sb 206.834	-0.0458u	1.1064	1.2639
Se 196.026	-4.9840u	-0.0645u	-2.7044u
Sn 189.925	0.9072	2.2712	-2.0438u
Sr 216.596	1.5258	1.3099	1.7189
Ti 334.941	0.0113	0.0580	-0.0063u
Tl 190.794	0.8908	1.4834	-0.9994u
V 292.401	-0.4177u	-0.0199u	-0.2140u
Zn 206.200	6.6831	5.3389	4.1172

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1762	ppb	0.2817	159.8	-35.3178
Al 308.215	2.3219	ppb	0.1675	7.2	83.0672
As 188.980	2.5674	ppb	7.1659	279.1	-5.4936
B 249.678	85.1099	ppb	0.5473	0.6	1298.19
Ba 389.178	0.3559	ppb	0.1259	35.4	14.2007
Be 313.042	-0.0024	ppb	0.0068	286.6	-381.890
Ca 370.602	572.3	ppb	0.9320	0.2	1846
Cd 226.502	1.2680	ppb	0.1470	11.6	89.8549
Co 228.615	0.0459	ppb	0.4138	901.7	8.1299
Cr 267.716	0.1120	ppb	0.2188	195.4	23.4835
Cu 324.754	2.8114	ppb	0.0919	3.3	395.801
Fe 271.441	9.6675	ppb	2.9479	30.5	125.785
K 766.491	97.1721	ppb	0.7506	0.8	4115.55
Mg 279.078	144.621	ppb	2.3169	1.6	376.151
Mn 257.610	0.2105	ppb	0.0140	6.7	131.487
Mo 202.032	-0.3340	ppb	0.2258	67.6	14.1483
Na 330.237	5022.80	ppb	40.0750	0.8	342.855
Ni 231.604	0.2137	ppb	0.5114	239.3	-5.1793
Pb 220.353	-0.4748	ppb	2.1906	461.4	30.6542
Sb 206.834	0.7748	ppb	0.7150	92.3	4.5899
Se 196.026	-2.5843	ppb	2.4620	95.3	10.3333
Sn 189.925	0.3782	ppb	2.2056	583.2	-12.0978
Sr 216.596	1.5182	ppb	0.2046	13.5	39.8924
Ti 334.941	0.0210	ppb	0.0332	158.2	-34.9850
Tl 190.794	0.4583	ppb	1.2967	282.9	-15.1786
V 292.401	-0.2172	ppb	0.1989	91.6	-15.0171
Zn 206.200	5.3797	ppb	1.2834	23.8	37.8613

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89748-b-6-e (Samp)

5/7/2013, 8:26:58 PM

Rack 1, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1872u	0.0138	-0.3192u
Al 308.215	43.7797	45.0487	45.3438
As 188.980	2.5691	-7.7858u	-2.5863u
B 249.678	54.6730	55.5579	54.9917
Ba 389.178	7.5982	7.6905	6.9874
Be 313.042	-0.0055u	-0.0116u	-0.0076u
Ca 370.602	1271	1286	1286
Cd 226.502	0.0077u	0.0043u	0.0252
Co 228.615	0.0110	-0.1371u	-0.4469u
Cr 267.716	-0.1773u	-0.1039u	-0.2318u
Cu 324.754	-0.0616u	0.4903	0.2717
Fe 271.441	8.7075	9.1920	8.5707
K 766.491	188.721	191.278	190.779
Mg 279.078	221.667	227.062	224.730
Mn 257.610	16.8205	17.0007	17.0189
Mo 202.032	0.2743	0.1088	-0.2172u
Na 330.237	157431x	158138x	158428x
Ni 231.604	0.1145	0.6729	-0.0298u
Pb 220.353	0.9906	3.2736	1.4001
Sb 206.834	1.5337	-5.8875u	-3.3008u
Se 196.026	-0.0963u	3.5797	-1.6452u
Sn 189.925	-0.5216u	-1.9008u	0.5366
Sr 216.596	9.5005	9.3330	10.0276
Ti 334.941	0.1845	0.3206	0.2175
Tl 190.794	-0.2350u	-3.4793u	-4.4026u
V 292.401	-0.5160u	-0.1787u	-0.2649u
Zn 206.200	7.7899	7.8077	7.0312

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1642b	ppb	0.1677	102.1	-34.6911
Al 308.215	44.7241b	ppb	0.8311	1.9	279.829
As 188.980	-2.6010b	ppb	5.1775	199.1	-7.9653
B 249.678	55.0742b	ppb	0.4482	0.8	891.969
Ba 389.178	7.4254b	ppb	0.3821	5.1	178.661
Be 313.042	-0.0083b	ppb	0.0031	37.6	-410.679
Ca 370.602	1281b	ppb	8.306	0.6	4123
Cd 226.502	0.0124b	ppb	0.0112	90.5	36.8422
Co 228.615	-0.1910b	ppb	0.2337	122.4	4.9319
Cr 267.716	-0.1710b	ppb	0.0642	37.5	11.6322
Cu 324.754	0.2335b	ppb	0.2779	119.0	274.175
Fe 271.441	8.8234b	ppb	0.3264	3.7	124.170
K 766.491	190.259b	ppb	1.3556	0.7	7703.10
Mg 279.078	224.486b	ppb	2.7055	1.2	561.937
Mn 257.610	16.9467b	ppb	0.1096	0.6	4605.46
Mo 202.032	0.0553b	ppb	0.2501	452.2	17.3315
Na 330.237	157999xb	ppb	512.876	0.3	8686.08
Ni 231.604	0.2525b	ppb	0.3711	147.0	-5.0587
Pb 220.353	1.8881b	ppb	1.2172	64.5	35.5725
Sb 206.834	-2.5515b	ppb	3.7669	147.6	0.4787
Se 196.026	0.6127b	ppb	2.6836	438.0	12.1062
Sn 189.925	-0.6286b	ppb	1.2222	194.4	-13.0527
Sr 216.596	9.6204b	ppb	0.3625	3.8	144.188
Ti 334.941	0.2409b	ppb	0.0710	29.5	19.8845
Tl 190.794	-2.7056b	ppb	2.1888	80.9	-18.7198
V 292.401	-0.3199b	ppb	0.1752	54.8	-19.3146
Zn 206.200	7.5430b	ppb	0.4433	5.8	317.3886

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89748-b-7-d (Samp) 5/7/2013, 8:32:24 PM Rack 1, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0255u	-0.0601u	-0.1572u
Al 308.215	2430.10	2466.92	2454.16
As 188.980	4.8502	8.1225	0.9046
B 249.678	60.8045	60.8040	61.3469
Ba 389.178	42.6240	42.8062	43.1498
Be 313.042	0.0295	0.0266	0.0281
Ca 370.602	1893	1923	1914
Cd 226.502	-0.0789u	-0.0340	-0.0275
Co 228.615	0.9611	0.1515	0.5207
Cr 267.716	2.0174	2.0265	1.8934
Cu 324.754	0.4956	0.8313	1.0696
Fe 271.441	643.192	646.724	647.653
K 766.491	406.435	409.019	406.856
Mg 279.078	329.742	338.236	336.011
Mn 257.610	1.7576	1.7367	1.7471
Mo 202.032	-0.4773u	-0.3520u	0.0194
Na 330.237	152728x	154478x	154401x
Ni 231.604	5.4398	4.0904	4.2287
Pb 220.353	3.5305	3.3425	3.7043
Sb 206.834	3.6559	1.8571	0.4818
Se 196.026	4.9946	-3.5957u	1.5757
Sn 189.925	2.2984	-0.4007u	1.9403
Sr 216.596	11.1720	11.6488	11.6151
Ti 334.941	119.327	129.147	115.193
Tl 190.794	-2.2134u	1.0888	-1.9934u
V 292.401	2.6699	2.7049	2.5769
Zn 206.200	3.3969	4.9644	3.9205

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0809b	ppb	0.0683	84.3	-28.0866
Al 308.215	2450.39b	ppb	18.6954	0.8	11442.4
As 188.980	4.6258b	ppb	3.6142	78.1	-4.5035
B 249.678	60.9851b	ppb	0.3133	0.5	971.057
Ba 389.178	42.8600b	ppb	0.2670	0.6	1003.13
Be 313.042	0.0281b	ppb	0.0014	5.1	-340.844
Ca 370.602	1910b	ppb	15.24	0.8	6113
Cd 226.502	-0.0468b	ppb	0.0280	59.8	36.7801
Co 228.615	0.5444b	ppb	0.4053	74.4	18.5403
Cr 267.716	1.9791b	ppb	0.0743	3.8	125.478
Cu 324.754	0.7989b	ppb	0.2884	36.1	300.992
Fe 271.441	645.856b	ppb	2.3541	0.4	1312.78
K 766.491	407.437b	ppb	1.3861	0.3	16073.0
Mg 279.078	334.663b	ppb	4.4041	1.3	818.274
Mn 257.610	1.7471b	ppb	0.0105	0.6	545.167
Mo 202.032	-0.2700b	ppb	0.2583	95.7	14.6298
Na 330.237	153869xb	ppb	988.670	0.6	8459.62
Ni 231.604	4.5863b	ppb	0.7424	16.2	8.4058
Pb 220.353	3.5258b	ppb	0.1809	5.1	38.9461
Sb 206.834	1.9983b	ppb	1.5918	79.7	6.1444
Se 196.026	0.9916b	ppb	4.3248	436.2	12.3157
Sn 189.925	1.2793b	ppb	1.4659	114.6	-11.1180
Sr 216.596	11.4786b	ppb	0.2661	2.3	168.474
Ti 334.941	121.222b	ppb	7.1676	5.9	37200.8
Tl 190.794	-1.0393b	ppb	1.8463	177.6	-16.8783
V 292.401	2.6505b	ppb	0.0661	2.5	69.7006
Zn 206.200	4.0940b	ppb	0.7980	19.5	35.8304

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Verif (CCV) 5/7/2013, 8:37:49 PM Rack 1, Tube 49  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	488.735	476.716	484.040
Al 308.215	4761.65	4752.37	4790.52
As 188.980	511.160	502.013	493.961
B 249.678	498.591	494.354	496.314
Ba 389.178	5075.84	5029.92	5041.18
Be 313.042	509.018	503.126	507.769
Ca 370.602	4944	4922	4951
Cd 226.502	512.191	508.246	510.568
Co 228.615	518.780	513.541	516.417
Cr 267.716	5131.94	5081.11	5094.12
Cu 324.754	4964.93	4909.16	4980.90
Fe 271.441	4913.07	4870.66	4893.76
K 766.491	10091.0	9917.68	9940.67
Mg 279.078	4925.79	4883.00	4899.20
Mn 257.610	5222.09	5193.73	5207.53
Mo 202.032	492.504	490.509	492.708
Na 330.237	7127.97	7212.35	6931.13
Ni 231.604	2575.57	2555.31	2562.06
Pb 220.353	486.799	488.022	486.149
Sb 206.834	957.216	951.031	958.251
Se 196.026	4883.54	4833.10	4851.34
Sn 189.925	5005.54	4989.84	4965.31
Sr 216.596	2504.81	2484.40	2491.12
Ti 334.941	493.841	487.894	489.214
Tl 190.794	5021.96	4977.14	4960.62
V 292.401	4931.29	4881.29	4895.54
Zn 206.200	2592.46	2573.79	2568.35

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	483.164	ppb	6.0575	1.3	38991.6	96.63274
Al 308.215	4768.18	ppb	19.8961	0.4	22180.0	95.36357
As 188.980	502.378	ppb	8.6055	1.7	233.870	100.47565
B 249.678	496.420	ppb	2.1204	0.4	6854.39	19.85678Q
Ba 389.178	5048.98	ppb	23.9369	0.5	117345	100.97963
Be 313.042	506.638	ppb	3.1044	0.6	961491	101.32755
Ca 370.602	4939	ppb	15.36	0.3	15756	98.78384
Cd 226.502	510.335	ppb	1.9827	0.4	21213.9	102.06693
Co 228.615	516.246	ppb	2.6237	0.5	6994.88	103.24922
Cr 267.716	5102.39	ppb	26.4021	0.5	269539	102.04776
Cu 324.754	4951.67	ppb	37.6644	0.8	233856	99.03330
Fe 271.441	4892.50	ppb	21.2299	0.4	9372.40	97.84997
K 766.491	9983.11	ppb	94.1231	0.9	385116	99.83110
Mg 279.078	4902.67	ppb	21.6021	0.4	11370.3	98.05331
Mn 257.610	5207.79	ppb	14.1816	0.3	1392360	104.15576
Mo 202.032	491.907	ppb	1.2148	0.2	4027.47	98.38141
Na 330.237	7090.48	ppb	144.309	2.0	429.440	94.53979
Ni 231.604	2564.31	ppb	10.3171	0.4	7951.49	102.57257
Pb 220.353	486.990	ppb	0.9513	0.2	1044.34	97.39803
Sb 206.834	955.499	ppb	3.9044	0.4	1242.90	95.54993
Se 196.026	4856.00	ppb	25.5404	0.5	2699.10	97.11990
Sn 189.925	4986.90	ppb	20.2774	0.4	5048.25	99.73790
Sr 216.596	2493.44	ppb	10.4031	0.4	32020.5	99.73775
Ti 334.941	490.316	ppb	3.1232	0.6	150666	98.06322
Tl 190.794	4986.57	ppb	31.7363	0.6	5516.26	99.73148
V 292.401	4902.71	ppb	25.7587	0.5	143235	98.05413
Zn 206.200	2578.20	ppb	12.6432	0.5	4186.54	103.12798

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Blank (CCB)                      5/7/2013, 8:43:13 PM                      Rack 1, Tube 50  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0837u	-0.1060u	-0.3230u
Al 308.215	-1.6309u	-1.3841u	-1.5763u
As 188.980	5.6601	-1.7225u	7.3488
B 249.678	6.8439	6.6964	5.6772
Ba 389.178	-0.5104u	-0.5719u	-0.8582u
Be 313.042	-0.0068u	-0.0051u	0.0019
Ca 370.602	-0.3410u	-3.761u	-1.861u
Cd 226.502	-0.2255u	-0.0164u	-0.1221u
Co 228.615	0.3066	-0.4124u	0.4007
Cr 267.716	-0.2163u	-0.1133u	-0.1010u
Cu 324.754	0.3923	-0.1105u	-0.2707u
Fe 271.441	-1.6930u	3.4156	-3.6957u
K 766.491	-2.1540u	-3.0316u	-1.6417u
Mg 279.078	-2.8617u	3.1087	-4.4113u
Mn 257.610	-0.1418u	-0.1524u	-0.1206u
Mo 202.032	0.0003	-0.0658u	-0.0366u
Na 330.237	-344.913u	-186.068u	-212.789u
Ni 231.604	1.5097	1.3457	0.0848
Pb 220.353	-1.1405u	0.7937	0.8413
Sb 206.834	4.9012	4.8363	6.5795
Se 196.026	-0.0025u	2.5717	-5.6211u
Sn 189.925	1.5313	0.5921	-0.2834u
Sr 216.596	-0.4573u	0.1570	-0.2387u
Ti 334.941	0.0033	0.0249	0.0262
Tl 190.794	2.2200	0.1934	0.6720
V 292.401	-0.1373u	-0.3446u	0.1201
Zn 206.200	3.0516	1.6111	3.2007

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1709	ppb	0.1322	77.4	-34.8230	-0.17088
Al 308.215	-1.5304	ppb	0.1297	8.5	65.2083	-1.53043
As 188.980	3.7622	ppb	4.8243	128.2	-4.9249	3.76216
B 249.678	6.4058	ppb	0.6353	9.9	233.753	6.40584
Ba 389.178	-0.6468	ppb	0.1856	28.7	-9.4923	-0.64680
Be 313.042	-0.0033	ppb	0.0046	138.0	-383.353	-0.00335
Ca 370.602	-1.988	ppb	1.714	86.2	1.287	-1.98759
Cd 226.502	-0.1213	ppb	0.1046	86.2	32.2426	-0.12135
Co 228.615	0.0983	ppb	0.4448	452.4	8.8309	0.09832
Cr 267.716	-0.1435	ppb	0.0633	44.1	9.8944	-0.14351
Cu 324.754	0.0037	ppb	0.3459	9335.2	263.331	0.00371
Fe 271.441	-0.6577	ppb	3.6669	557.5	106.536	-0.65772
K 766.491	-2.2758	ppb	0.7029	30.9	282.869	-2.27577
Mg 279.078	-1.3881	ppb	3.9707	286.1	35.9346	-1.38807
Mn 257.610	-0.1383	ppb	0.0162	11.7	36.8518	-0.13829
Mo 202.032	-0.0340	ppb	0.0332	97.5	16.6011	-0.03403
Na 330.237	-247.923	ppb	85.0518	34.3	55.4183	-247.92329
Ni 231.604	0.9801	ppb	0.7796	79.5	-2.8014	0.98007
Pb 220.353	0.1649	ppb	1.1307	685.9	31.9835	0.16485
Sb 206.834	5.4390	ppb	0.9882	18.2	10.3417	5.43900
Se 196.026	-1.0173	ppb	4.1896	411.8	11.1999	-1.01728
Sn 189.925	0.6133	ppb	0.9075	148.0	-11.8617	0.61332
Sr 216.596	-0.1797	ppb	0.3114	173.3	17.9625	-0.17969
Ti 334.941	0.0181	ppb	0.0129	70.9	-36.1548	0.01813
Tl 190.794	1.0284	ppb	1.0593	103.0	-14.5442	1.02845
V 292.401	-0.1206	ppb	0.2328	193.1	-12.1617	-0.12059
Zn 206.200	2.6211	ppb	0.8779	33.5	37.3637	2.62115

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89720-a-1-q (Samp) 5/7/2013, 8:48:37 PM Rack 1, Tube 51

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0772u	-0.3068u	-0.3102u
Al 308.215	14.4543	16.9074	14.6358
As 188.980	-0.5534u	4.8413	7.2706
B 249.678	474.744	478.595	481.159
Ba 389.178	24.2412	25.0984	24.9263
Be 313.042	0.0052u	-0.0020u	-0.0069u
Ca 370.602	6965	6972	6979
Cd 226.502	1.7295	1.6739	1.7202
Co 228.615	0.7338	0.1395u	0.2876
Cr 267.716	1.2881	1.1783	1.2369
Cu 324.754	6.4875	6.7182	6.8304
Fe 271.441	57.8453	57.9312	61.5244
K 766.491	1315.45	1315.76	1319.42
Mg 279.078	510.345	512.876	513.567
Mn 257.610	14.2721	14.3535	14.3822
Mo 202.032	54.0483	54.0581	54.8149
Na 330.237	156618x	158112x	157906x
Ni 231.604	3.0135	1.6715	2.7394
Pb 220.353	0.1753	0.2266	0.0306u
Sb 206.834	-3.9571u	2.5332	2.6713
Se 196.026	2.5962	1.2978	9.7792
Sn 189.925	3.4015	-1.6413u	-2.1887u
Sr 216.596	11.3598	11.6355	11.0938
Ti 334.941	0.1025	0.1956	0.0534
Tl 190.794	-2.2670u	-0.6087u	-2.1403u
V 292.401	-0.0944u	0.0778u	-0.0435u
Zn 206.200	2209.53	2227.64	2230.64

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2314b	ppb	0.1335	57.7	-40.2085
Al 308.215	15.3325b	ppb	1.3669	8.9	149.303
As 188.980	3.8528b	ppb	4.0046	103.9	-4.8471
B 249.678	478.166b	ppb	3.2289	0.7	6614.12
Ba 389.178	24.7553b	ppb	0.4535	1.8	582.401
Be 313.042	-0.0012b	ppb	0.0060	495.9	-403.701
Ca 370.602	6972b	ppb	7.040	0.1	22405
Cd 226.502	1.7079b	ppb	0.0298	1.7	107.330
Co 228.615	0.3870b	ppb	0.3094	80.0	10.5953
Cr 267.716	1.2344b	ppb	0.0550	4.5	85.8037
Cu 324.754	6.6787b	ppb	0.1749	2.6	579.703
Fe 271.441	59.1003b	ppb	2.0998	3.6	218.114
K 766.491	1316.88b	ppb	2.2057	0.2	51122.6
Mg 279.078	512.262b	ppb	1.6962	0.3	1232.56
Mn 257.610	14.3360b	ppb	0.0571	0.4	3910.48
Mo 202.032	54.3071b	ppb	0.4398	0.8	460.833
Na 330.237	157545xb	ppb	810.024	0.5	8643.75
Ni 231.604	2.4748b	ppb	0.7090	28.6	1.8408
Pb 220.353	0.1442b	ppb	0.1017	70.5	31.8538
Sb 206.834	0.4158b	ppb	3.7877	910.9	3.2405
Se 196.026	4.5577b	ppb	4.5683	100.2	14.2878
Sn 189.925	-0.1428b	ppb	3.0816	2157.5	-12.5571
Sr 216.596	11.3630b	ppb	0.2709	2.4	164.919
Ti 334.941	0.1171b	ppb	0.0722	61.7	-16.6482
Tl 190.794	-1.6720b	ppb	0.9230	55.2	-17.5966
V 292.401	-0.0200b	ppb	0.0885	441.8	-22.0613
Zn 206.200	2222.60b	ppb	11.4212	0.5	3622.56

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89720-a-1-r ms (Samp) 5/7/2013, 8:54:01 PM Rack 1, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	3.1460	3.4883	3.1568
Al 308.215	705.344	702.931	702.854
As 188.980	76.5802	74.9731	69.5266
B 249.678	396.279	398.758	400.930
Ba 389.178	83.5957	83.9690	83.3616
Be 313.042	72.1718	72.1941	72.1847
Ca 370.602	10641	10639	10634
Cd 226.502	73.9408	73.7997	73.8212
Co 228.615	73.1082	72.4242	73.9912
Cr 267.716	73.4842	73.9845	73.8683
Cu 324.754	74.8583	75.8130	75.3487
Fe 271.441	6967.51	6970.67	6963.31
K 766.491	8410.88	8438.09	8489.70
Mg 279.078	7118.70	7118.12	7132.28
Mn 257.610	759.655	761.099	762.158
Mo 202.032	100.159	99.1087	99.7393
Na 330.237	89730.9	89643.3	89704.8
Ni 231.604	72.7919	72.2330	71.6077
Pb 220.353	70.8246	72.5513	69.7878
Sb 206.834	69.5206	70.8250	70.1188
Se 196.026	61.0821	73.0416	75.7218
Sn 189.925	47.2005	45.7017	43.1230
Sr 216.596	77.5627	77.0597	77.3585
Ti 334.941	68.7767	68.9809	69.1250
Tl 190.794	12.3589	15.1380	15.0647
V 292.401	69.9418	70.2789	70.5465
Zn 206.200	1271.93	1261.83	1263.13

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.2637b	ppb	0.1946	6.0	243.240
Al 308.215	703.710b	ppb	1.4161	0.2	3347.35
As 188.980	73.6933b	ppb	3.6968	5.0	28.5758
B 249.678	398.655b	ppb	2.3273	0.6	5529.46
Ba 389.178	83.6421b	ppb	0.3063	0.4	1978.10
Be 313.042	72.1835b	ppb	0.0112	0.0	136677
Ca 370.602	10638b	ppb	3.250	0.0	33650
Cd 226.502	73.8539b	ppb	0.0760	0.1	3124.69
Co 228.615	73.1745b	ppb	0.7856	1.1	994.567
Cr 267.716	73.7790b	ppb	0.2619	0.4	3920.91
Cu 324.754	75.3400b	ppb	0.4774	0.6	3821.67
Fe 271.441	6967.16b	ppb	3.6939	0.1	13118.4
K 766.491	8446.22b	ppb	40.0327	0.5	325885
Mg 279.078	7123.03b	ppb	8.0158	0.1	16624.6
Mn 257.610	760.971b	ppb	1.2569	0.2	203597
Mo 202.032	99.6689b	ppb	0.5285	0.5	831.122
Na 330.237	89693.0b	ppb	44.9813	0.1	4947.58
Ni 231.604	72.2109b	ppb	0.5924	0.8	218.404
Pb 220.353	71.0546b	ppb	1.3960	2.0	179.357
Sb 206.834	70.1548b	ppb	0.6529	0.9	90.3567
Se 196.026	69.9485b	ppb	7.7946	11.1	50.7074
Sn 189.925	45.3417b	ppb	2.0625	4.5	33.5733
Sr 216.596	77.3270b	ppb	0.2530	0.3	1014.64
Ti 334.941	68.9609b	ppb	0.1750	0.3	21179.7
Tl 190.794	14.1872b	ppb	1.5838	11.2	-1.5337
V 292.401	70.2557b	ppb	0.3030	0.4	2024.88
Zn 206.200	1265.63b	ppb	5.4962	0.4	2062.97

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**680-89720-a-1-s msd (Samp) 5/7/2013, 8:59:26 PM Rack 1, Tube 53****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	3.3308	3.3658	3.2774
Al 308.215	622.386	622.810	614.810
As 188.980	60.0907	77.6713	70.1464
B 249.678	353.481	357.405	355.769
Ba 389.178	73.5785	74.3096	75.0453
Be 313.042	63.5042	64.0809	63.5284
Ca 370.602	9393	9479	9371
Cd 226.502	64.6454	65.4091	64.6977
Co 228.615	64.1954	64.5477	64.0390
Cr 267.716	64.9057	64.5926	64.4337
Cu 324.754	66.1619	66.6064	66.0188
Fe 271.441	6129.58	6192.11	6120.43
K 766.491	7313.85	7384.39	7382.61
Mg 279.078	6262.59	6319.71	6264.11
Mn 257.610	670.055	674.602	670.220
Mo 202.032	87.6793	88.6931	88.3228
Na 330.237	78506.0	79354.5	78909.1
Ni 231.604	64.5098	65.7178	64.2066
Pb 220.353	60.9804	65.3233	62.4114
Sb 206.834	54.1726	60.6926	59.1098
Se 196.026	64.5967	60.1473	58.7845
Sn 189.925	35.5051	40.2005	37.3161
Sr 216.596	67.7330	68.6334	67.6554
Ti 334.941	60.5033	61.0162	60.4636
Tl 190.794	11.7956	13.7702	12.2257
V 292.401	61.6044	62.2064	61.9048
Zn 206.200	1121.30	1124.40	1122.55

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.3247	ppb	0.0445	1.3	248.153
Al 308.215	620.002	ppb	4.5015	0.7	2957.84
As 188.980	69.3028	ppb	8.8206	12.7	26.4729
B 249.678	355.551	ppb	1.9710	0.6	4947.60
Ba 389.178	74.3111	ppb	0.7334	1.0	1757.85
Be 313.042	63.7045	ppb	0.3262	0.5	120578
Ca 370.602	9414	ppb	56.71	0.6	29782
Cd 226.502	64.9174	ppb	0.4266	0.7	2751.17
Co 228.615	64.2607	ppb	0.2606	0.4	874.294
Cr 267.716	64.6440	ppb	0.2402	0.4	3437.64
Cu 324.754	66.2624	ppb	0.3064	0.5	3392.93
Fe 271.441	6147.37	ppb	39.0088	0.6	11587.5
K 766.491	7360.28	ppb	40.2230	0.5	284033
Mg 279.078	6282.14	ppb	32.5466	0.5	14666.6
Mn 257.610	671.626	ppb	2.5792	0.4	179701
Mo 202.032	88.2317	ppb	0.5130	0.6	737.689
Na 330.237	78923.2	ppb	424.445	0.5	4361.72
Ni 231.604	64.8114	ppb	0.7995	1.2	195.423
Pb 220.353	62.9050	ppb	2.2131	3.5	162.414
Sb 206.834	57.9916	ppb	3.4008	5.9	75.3111
Se 196.026	61.1762	ppb	3.0397	5.0	45.8252
Sn 189.925	37.6739	ppb	2.3680	6.3	25.7866
Sr 216.596	68.0073	ppb	0.5436	0.8	894.750
Ti 334.941	60.6610	ppb	0.3082	0.5	18625.7
Tl 190.794	12.5972	ppb	1.0384	8.2	-3.1114
V 292.401	61.9052	ppb	0.3010	0.5	1783.07
Zn 206.200	1122.75	ppb	1.5553	0.1	1829.97



E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

lb 680-275428/16-c (Samp) 5/7/2013, 9:04:50 PM Rack 1, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1015u	-0.2575u	-0.0391u
Al 308.215	-0.0495u	1.1869	1.0996
As 188.980	2.9702	-1.8294u	2.0096
B 249.678	13.7559	13.5245	12.4077
Ba 389.178	-0.9668u	-0.4151u	0.0038
Be 313.042	-0.0029u	-0.0092u	-0.0089u
Ca 370.602	40.09	39.45	41.21
Cd 226.502	-0.0448u	-0.1536u	0.0069u
Co 228.615	0.3876	0.2835	0.0370
Cr 267.716	-0.1101u	-0.0258	-0.0422
Cu 324.754	0.3081	0.8420	0.2725
Fe 271.441	-1.2219u	3.6550	3.9196
K 766.491	24.0486	23.5760	23.9671
Mg 279.078	10.9521	8.1870	6.9549
Mn 257.610	-0.0467u	-0.0728u	-0.0652u
Mo 202.032	0.2892	0.3768	0.3542
Na 330.237	142390x	143963x	143041x
Ni 231.604	1.0272	2.1873	1.8178
Pb 220.353	1.0517	-1.8514u	1.6438
Sb 206.834	1.1919	2.3286	-1.9106u
Se 196.026	7.0724	-0.3437u	-4.0916u
Sn 189.925	0.0486	0.7928	-0.1524u
Sr 216.596	0.1996	0.1821	0.3968
Ti 334.941	-0.0076u	-0.0350u	-0.0629u
Tl 190.794	-3.1685u	-0.3440u	0.5800
V 292.401	-0.1252u	0.2177	0.1738
Zn 206.200	3.7568	1.4432	3.5336

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1327b	ppb	0.1125	84.8	-31.7310
Al 308.215	0.7457b	ppb	0.6900	92.5	75.7870
As 188.980	1.0501b	ppb	2.5396	241.8	-6.2241
B 249.678	13.2294b	ppb	0.7210	5.4	326.035
Ba 389.178	-0.4594b	ppb	0.4868	106.0	-5.1044
Be 313.042	-0.0070b	ppb	0.0035	50.5	-407.032
Ca 370.602	40.25b	ppb	0.8910	2.2	136.7
Cd 226.502	-0.0638b	ppb	0.0819	128.3	33.7503
Co 228.615	0.2360b	ppb	0.1801	76.3	10.6826
Cr 267.716	-0.0594b	ppb	0.0447	75.3	17.1466
Cu 324.754	0.4742b	ppb	0.3190	67.3	285.535
Fe 271.441	2.1176b	ppb	2.8950	136.7	111.738
K 766.491	23.8639b	ppb	0.2526	1.1	1290.28
Mg 279.078	8.6980b	ppb	2.0470	23.5	59.4331
Mn 257.610	-0.0616b	ppb	0.0134	21.8	56.5635
Mo 202.032	0.3401b	ppb	0.0455	13.4	19.6587
Na 330.237	143131xb	ppb	790.596	0.6	7875.24
Ni 231.604	1.6775b	ppb	0.5927	35.3	-0.6373
Pb 220.353	0.2814b	ppb	1.8706	664.8	32.2257
Sb 206.834	0.5366b	ppb	2.1942	408.9	4.2872
Se 196.026	0.8791b	ppb	5.6816	646.3	12.2488
Sn 189.925	0.2297b	ppb	0.4979	216.8	-12.1889
Sr 216.596	0.2595b	ppb	0.1192	46.0	23.5973
Ti 334.941	-0.0352b	ppb	0.0276	78.6	-64.7448
Tl 190.794	-0.9775b	ppb	1.9529	199.8	-16.7722
V 292.401	0.0887b	ppb	0.1866	210.3	-7.2880
Zn 206.200	2.9112b	ppb	1.2762	43.8	37.8366

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89882-a-1-b (Samp) 5/7/2013, 9:10:15 PM Rack 1, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0344	-0.1290u	-0.0675u
Al 308.215	14.3444	10.7565	12.3335
As 188.980	2.6558	-1.3848u	0.4563
B 249.678	76.4293	76.6860	77.2545
Ba 389.178	33.7820	33.7813	33.5220
Be 313.042	-0.0067u	-0.0030u	-0.0054u
Ca 370.602	1039	1037	1035
Cd 226.502	2.8871	3.2378	3.1996
Co 228.615	1.3012	0.7178	1.3563
Cr 267.716	2.5535	2.6620	2.6054
Cu 324.754	34.9689	34.7275	35.8829
Fe 271.441	1723.03	1734.27	1738.13
K 766.491	201.213	201.946	202.713
Mg 279.078	207.536	203.930	203.687
Mn 257.610	17.2450	17.2945	17.2174
Mo 202.032	0.1779	-0.1737u	-0.1502u
Na 330.237	149851x	149674x	151014x
Ni 231.604	7.8042	8.3937	8.8750
Pb 220.353	220.917	220.048	218.891
Sb 206.834	3.6972	1.4893	-0.8498u
Se 196.026	2.1407	9.6627	3.7588
Sn 189.925	1.8603	-0.5343u	-2.3595u
Sr 216.596	11.8465	11.1676	11.6864
Ti 334.941	-0.0599u	-0.0925u	-0.0072u
Tl 190.794	-3.9307u	-3.6561u	4.4697
V 292.401	-0.1897u	0.0180u	0.0124u
Zn 206.200	576.743	579.870	577.443

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0540b	ppb	0.0825	152.8	-25.8526
Al 308.215	12.4781b	ppb	1.7983	14.4	130.211
As 188.980	0.5757b	ppb	2.0230	351.4	-6.4585
B 249.678	76.7899b	ppb	0.4223	0.5	1183.35
Ba 389.178	33.6951b	ppb	0.1499	0.4	791.393
Be 313.042	-0.0050b	ppb	0.0019	37.1	-403.848
Ca 370.602	1037b	ppb	2.370	0.2	3198
Cd 226.502	3.1082b	ppb	0.1924	6.2	171.636
Co 228.615	1.1251b	ppb	0.3538	31.4	22.6458
Cr 267.716	2.6070b	ppb	0.0542	2.1	158.634
Cu 324.754	35.1931b	ppb	0.6095	1.7	1924.09
Fe 271.441	1731.81b	ppb	7.8445	0.5	3338.70
K 766.491	201.957b	ppb	0.7497	0.4	8153.94
Mg 279.078	205.051b	ppb	2.1552	1.1	516.998
Mn 257.610	17.2523b	ppb	0.0391	0.2	4692.45
Mo 202.032	-0.0487b	ppb	0.1965	403.9	16.3840
Na 330.237	150180xb	ppb	727.920	0.5	8254.45
Ni 231.604	8.3576b	ppb	0.5363	6.4	20.1345
Pb 220.353	219.952b	ppb	1.0162	0.5	488.974
Sb 206.834	1.4456b	ppb	2.2738	157.3	5.4926
Se 196.026	5.1874b	ppb	3.9593	76.3	14.6478
Sn 189.925	-0.3445b	ppb	2.1163	614.3	-12.7680
Sr 216.596	11.5668b	ppb	0.3549	3.1	170.068
Ti 334.941	-0.0532b	ppb	0.0430	80.9	-69.6947
Tl 190.794	-1.0390b	ppb	4.7727	459.3	-16.9664
V 292.401	-0.0531b	ppb	0.1184	222.8	-11.6439
Zn 206.200	578.019b	ppb	1.6411	0.3	941.609

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**680-89882-a-1-c ms (Samp) 5/7/2013, 9:15:40 PM Rack 1, Tube 56****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	86.1216	85.9578	86.1902
Al 308.215	1035.97	1032.68	1035.51
As 188.980	103.734	111.619	104.254
B 249.678	260.910	259.317	262.658
Ba 389.178	132.921	131.959	132.682
Be 313.042	107.088	106.523	106.973
Ca 370.602	11084	11012	11043
Cd 226.502	111.422	110.589	111.483
Co 228.615	109.055	108.543	110.495
Cr 267.716	111.040	110.401	110.318
Cu 324.754	134.963	134.148	134.740
Fe 271.441	11665.7	11614.2	11642.5
K 766.491	12083.7	12062.7	12049.0
Mg 279.078	10359.4	10294.3	10329.1
Mn 257.610	1132.99	1127.87	1130.58
Mo 202.032	104.990	103.899	104.130
Na 330.237	131829x	130880x	131372x
Ni 231.604	112.415	113.211	111.170
Pb 220.353	280.806	282.566	281.536
Sb 206.834	97.0994	102.962	98.6741
Se 196.026	104.596	101.351	101.073
Sn 189.925	98.1020	98.3404	99.1570
Sr 216.596	115.024	113.677	113.995
Ti 334.941	102.755	102.583	102.894
Tl 190.794	20.5778	21.4853	21.4255
V 292.401	104.348	104.301	104.115
Zn 206.200	577.385	577.021	581.252

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	86.0899b	ppb	0.1194	0.1	6942.23
Al 308.215	1034.72b	ppb	1.7785	0.2	4883.28
As 188.980	106.536b	ppb	4.4103	4.1	44.2764
B 249.678	260.962b	ppb	1.6714	0.6	3660.92
Ba 389.178	132.521b	ppb	0.5008	0.4	3128.83
Be 313.042	106.861b	ppb	0.2989	0.3	202524
Ca 370.602	11047b	ppb	36.40	0.3	34598
Cd 226.502	111.165b	ppb	0.4995	0.4	4688.68
Co 228.615	109.365b	ppb	1.0121	0.9	1484.43
Cr 267.716	110.586b	ppb	0.3951	0.4	5868.51
Cu 324.754	134.617b	ppb	0.4215	0.3	6619.51
Fe 271.441	11640.8b	ppb	25.8007	0.2	21843.8
K 766.491	12065.1b	ppb	17.4507	0.1	465357
Mg 279.078	10327.6b	ppb	32.6008	0.3	24086.0
Mn 257.610	1130.48b	ppb	2.5646	0.2	302424
Mo 202.032	104.339b	ppb	0.5752	0.6	868.969
Na 330.237	131360xb	ppb	474.218	0.4	7223.52
Ni 231.604	112.266b	ppb	1.0286	0.9	342.809
Pb 220.353	281.636b	ppb	0.8844	0.3	617.264
Sb 206.834	99.5786b	ppb	3.0342	3.0	127.532
Se 196.026	102.340b	ppb	1.9586	1.9	68.7557
Sn 189.925	98.5331b	ppb	0.5533	0.6	87.5704
Sr 216.596	114.232b	ppb	0.7040	0.6	1491.19
Ti 334.941	102.744b	ppb	0.1553	0.2	31574.8
Tl 190.794	21.1629b	ppb	0.5076	2.4	5.3842
V 292.401	104.255b	ppb	0.1231	0.1	3018.12
Zn 206.200	578.553b	ppb	2.3450	0.4	943.249

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**680-89882-a-1-d msd (Samp) 5/7/2013, 9:21:06 PM Rack 1, Tube 57****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	90.6684	90.8198	90.3214
Al 308.215	1015.39	1020.31	1013.44
As 188.980	116.013	110.236	114.987
B 249.678	256.359	257.675	258.568
Ba 389.178	130.281	130.811	130.333
Be 313.042	104.252	104.669	104.498
Ca 370.602	10783	10816	10797
Cd 226.502	108.193	108.455	108.612
Co 228.615	106.384	106.460	105.848
Cr 267.716	107.716	107.633	108.258
Cu 324.754	131.009	131.821	132.054
Fe 271.441	11345.8	11387.6	11370.3
K 766.491	11791.1	11783.2	11721.3
Mg 279.078	10089.7	10118.0	10098.0
Mn 257.610	1103.28	1107.22	1104.65
Mo 202.032	100.961	102.004	102.502
Na 330.237	127995x	128116x	128112x
Ni 231.604	110.195	111.009	111.215
Pb 220.353	271.798	274.271	276.326
Sb 206.834	96.2004	96.2968	99.5318
Se 196.026	104.961	107.482	100.124
Sn 189.925	96.6191	97.9444	98.6855
Sr 216.596	112.260	112.968	111.623
Ti 334.941	100.138	100.582	100.455
Tl 190.794	22.2127	21.2367	17.2697
V 292.401	101.509	101.833	102.342
Zn 206.200	561.447	561.891	560.482

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	90.6032b	ppb	0.2555	0.3	7307.21
Al 308.215	1016.38b	ppb	3.5412	0.3	4797.94
As 188.980	113.745b	ppb	3.0821	2.7	47.7317
B 249.678	257.534b	ppb	1.1114	0.4	3614.92
Ba 389.178	130.475b	ppb	0.2918	0.2	3080.30
Be 313.042	104.473b	ppb	0.2093	0.2	197989
Ca 370.602	10799b	ppb	16.87	0.2	33823
Cd 226.502	108.420b	ppb	0.2113	0.2	4573.89
Co 228.615	106.231b	ppb	0.3335	0.3	1442.10
Cr 267.716	107.869b	ppb	0.3395	0.3	5724.76
Cu 324.754	131.628b	ppb	0.5487	0.4	6478.38
Fe 271.441	11367.9b	ppb	21.0229	0.2	21334.0
K 766.491	11765.2b	ppb	38.2441	0.3	453797
Mg 279.078	10101.9b	ppb	14.5182	0.1	23560.5
Mn 257.610	1105.05b	ppb	1.9984	0.2	295623
Mo 202.032	101.822b	ppb	0.7868	0.8	848.413
Na 330.237	128074xb	ppb	68.7883	0.1	7044.57
Ni 231.604	110.806b	ppb	0.5391	0.5	338.274
Pb 220.353	274.132b	ppb	2.2672	0.8	601.660
Sb 206.834	97.3430b	ppb	1.8962	1.9	124.747
Se 196.026	104.189b	ppb	3.7392	3.6	69.7697
Sn 189.925	97.7496b	ppb	1.0468	1.1	86.7738
Sr 216.596	112.284b	ppb	0.6730	0.6	1466.06
Ti 334.941	100.392b	ppb	0.2292	0.2	30851.0
Tl 190.794	20.2397b	ppb	2.6180	12.9	4.4138
V 292.401	101.895b	ppb	0.4201	0.4	2949.61
Zn 206.200	561.273b	ppb	0.7202	0.1	915.056

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680-89879-a-1-b (Samp) 5/7/2013, 9:26:31 PM Rack 1, Tube 58

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2309u	-0.3506u	-0.3392u
Al 308.215	66.8871	64.9837	68.5493
As 188.980	1.2080	-0.9282	8.8841
B 249.678	77.1309	76.6877	76.3256
Ba 389.178	93.1893	92.7257	93.6714
Be 313.042	0.0061	0.0020	0.0121
Ca 370.602	74247	74142	74138
Cd 226.502	0.0444	0.0590	0.1403
Co 228.615	11.8458	11.9165	11.5509
Cr 267.716	-0.0680	-0.1171	0.0576
Cu 324.754	1.5818	1.5105	1.4696
Fe 271.441	-0.4394	5.4241	11.5860
K 766.491	663.765	660.431	662.774
Mg 279.078	1528.08	1519.71	1516.89
Mn 257.610	735.578	736.097	734.902
Mo 202.032	0.1332	-0.2854u	-0.0591u
Na 330.237	153175x	154444x	154225x
Ni 231.604	2.3706	1.5724	1.7688
Pb 220.353	917.104	916.703	916.389
Sb 206.834	18.9041	21.2860	14.9619
Se 196.026	2.7025	0.4806	9.0721
Sn 189.925	2.8839	-4.2235u	0.8786
Sr 216.596	42.2503	42.4023	42.5243
Ti 334.941	0.2199	0.1846	0.1523
Tl 190.794	0.2714u	2.4410	2.4255
V 292.401	-0.2968u	-0.0693u	-0.4382u
Zn 206.200	9.8858	10.9769	9.6934

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3069b	ppb	0.0660	21.5	-44.4729
Al 308.215	66.8067b	ppb	1.7841	2.7	382.302
As 188.980	3.0546b	ppb	5.1602	168.9	-4.7752
B 249.678	76.7147b	ppb	0.4033	0.5	1184.66
Ba 389.178	93.1955b	ppb	0.4729	0.5	2174.79
Be 313.042	0.0067b	ppb	0.0051	75.0	-356.655
Ca 370.602	74176b	ppb	61.87	0.1	238354
Cd 226.502	0.0812b	ppb	0.0516	63.6	39.7408
Co 228.615	11.7711b	ppb	0.1939	1.6	166.593
Cr 267.716	-0.0425b	ppb	0.0901	212.1	21.7529
Cu 324.754	1.5206b	ppb	0.0568	3.7	334.904
Fe 271.441	5.5236b	ppb	6.0133	108.9	120.033
K 766.491	662.323b	ppb	1.7121	0.3	25896.3
Mg 279.078	1521.56b	ppb	5.8231	0.4	3571.58
Mn 257.610	735.525b	ppb	0.5990	0.1	196720
Mo 202.032	-0.0704b	ppb	0.2095	297.4	16.3035
Na 330.237	153948xb	ppb	678.714	0.4	8465.11
Ni 231.604	1.9039b	ppb	0.4159	21.8	0.0655
Pb 220.353	916.732b	ppb	0.3582	0.0	1937.92
Sb 206.834	18.3840b	ppb	3.1940	17.4	26.3246
Se 196.026	4.0851b	ppb	4.4595	109.2	14.2254
Sn 189.925	-0.1536b	ppb	3.6644	2385.0	-12.5349
Sr 216.596	42.3923b	ppb	0.1373	0.3	574.586
Ti 334.941	0.1856b	ppb	0.0338	18.2	9.6523
Tl 190.794	1.7126b	ppb	1.2482	72.9	-14.9753
V 292.401	-0.2681b	ppb	0.1861	69.4	-17.7755
Zn 206.200	10.1854b	ppb	0.6922	6.8	3576954

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**680-89879-a-1-bSD^5 (Samp) 5/7/2013, 9:31:57 PM Rack 1, Tube 59****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2140u	0.2111	-0.1500u
Al 308.215	13.5694	12.6128	9.5418
As 188.980	0.5208	3.9263	-3.0690u
B 249.678	15.6687	15.7985	15.4613
Ba 389.178	17.2476	17.0271	17.2741
Be 313.042	-0.0037u	-0.0146u	-0.0064u
Ca 370.602	14579	14493	14543
Cd 226.502	0.1551	-0.1695u	-0.1051u
Co 228.615	3.2633	2.2982	3.0060
Cr 267.716	-0.2259u	-0.1215u	-0.2037u
Cu 324.754	-0.2502u	0.0476	0.2845
Fe 271.441	-6.8139u	-0.2719u	5.2462
K 766.491	112.200	111.553	112.231
Mg 279.078	304.756	303.203	306.670
Mn 257.610	147.450	146.568	147.074
Mo 202.032	-0.1243u	-0.3195u	0.0871
Na 330.237	28767.9	28423.7	28294.6
Ni 231.604	-0.0090u	1.5906	1.2261
Pb 220.353	182.787	181.924	179.302
Sb 206.834	2.7605	6.2824	4.2126
Se 196.026	2.0184	3.0598	-7.2152u
Sn 189.925	1.0355	-0.8124u	0.9229
Sr 216.596	8.4767	8.2230	8.0430
Ti 334.941	0.0070	0.0497	-0.0197u
Tl 190.794	2.2891	0.0889u	-0.4615u
V 292.401	-0.3362u	-0.3400u	-0.2031u
Zn 206.200	2.0744	2.6561	2.9909

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0510	ppb	0.2292	449.7	-24.8345
Al 308.215	11.9080	ppb	2.1043	17.7	127.557
As 188.980	0.4593	ppb	3.4980	761.5	-6.4114
B 249.678	15.6429	ppb	0.1701	1.1	358.683
Ba 389.178	17.1829	ppb	0.1356	0.8	405.556
Be 313.042	-0.0082	ppb	0.0057	69.3	-390.871
Ca 370.602	14538	ppb	43.47	0.3	46724
Cd 226.502	-0.0398	ppb	0.1719	431.5	35.4502
Co 228.615	2.8558	ppb	0.4998	17.5	46.1017
Cr 267.716	-0.1837	ppb	0.0550	29.9	9.0342
Cu 324.754	0.0273	ppb	0.2680	981.8	264.443
Fe 271.441	-0.6132	ppb	6.0373	984.6	107.079
K 766.491	111.995	ppb	0.3828	0.3	4686.81
Mg 279.078	304.876	ppb	1.7369	0.6	746.965
Mn 257.610	147.031	ppb	0.4425	0.3	39383.1
Mo 202.032	-0.1189	ppb	0.2034	171.0	15.9076
Na 330.237	28495.4	ppb	244.675	0.9	1623.06
Ni 231.604	0.9359	ppb	0.8383	89.6	-2.9384
Pb 220.353	181.338	ppb	1.8149	1.0	408.720
Sb 206.834	4.4185	ppb	1.7700	40.1	9.0828
Se 196.026	-0.7123	ppb	5.6557	793.9	11.4092
Sn 189.925	0.3820	ppb	1.0359	271.2	-12.0765
Sr 216.596	8.2476	ppb	0.2179	2.6	128.135
Ti 334.941	0.0124	ppb	0.0350	283.2	-38.8699
Tl 190.794	0.6388	ppb	1.4554	227.8	-15.2149
V 292.401	-0.2931	ppb	0.0780	26.6	-17.4354
Zn 206.200	2.5738	ppb	0.4638	18.0	372865

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**680-89879-a-1-bPDS (Samp) 5/7/2013, 9:37:24 PM Rack 1, Tube 60****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	44.3032	43.8789	44.7425
Al 308.215	2031.25	2026.82	2035.69
As 188.980	2227.60	2189.13	2200.22
B 249.678	1071.03	1071.88	1079.48
Ba 389.178	2173.61	2166.10	2171.06
Be 313.042	51.3790	51.2852	51.3587
Ca 370.602	77765	77662	77827
Cd 226.502	52.6652	52.5123	52.5554
Co 228.615	540.898	538.778	538.634
Cr 267.716	207.792	207.149	207.482
Cu 324.754	261.054	260.606	261.163
Fe 271.441	999.367	992.812	997.930
K 766.491	6952.63	6931.15	6962.25
Mg 279.078	6537.03	6522.14	6536.87
Mn 257.610	1262.20	1257.96	1259.80
Mo 202.032	519.441	517.064	518.301
Na 330.237	157618x	157340x	157078x
Ni 231.604	518.993	516.394	514.356
Pb 220.353	1406.11	1398.46	1402.77
Sb 206.834	511.035	515.646	522.116
Se 196.026	2049.34	2044.29	2056.91
Sn 189.925	1028.76	1025.56	1029.07
Sr 216.596	569.158	566.332	567.571
Ti 334.941	1010.44	1005.61	1008.81
Tl 190.794	2053.69	2046.44	2055.74
V 292.401	498.360	496.831	497.672
Zn 206.200	539.838	531.421	534.305

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	44.3082b	ppb	0.4318	1.0	3544.01
Al 308.215	2031.25b	ppb	4.4387	0.2	9546.60
As 188.980	2205.65b	ppb	19.8011	0.9	1050.47
B 249.678	1074.13b	ppb	4.6535	0.4	14673.1
Ba 389.178	2170.26b	ppb	3.8180	0.2	50451.0
Be 313.042	51.3410b	ppb	0.0494	0.1	97028.0
Ca 370.602	77751b	ppb	83.63	0.1	249964
Cd 226.502	52.5776b	ppb	0.0789	0.1	2220.11
Co 228.615	539.437b	ppb	1.2678	0.2	7307.76
Cr 267.716	207.474b	ppb	0.3217	0.2	10983.7
Cu 324.754	260.941b	ppb	0.2947	0.1	12583.9
Fe 271.441	996.703b	ppb	3.4451	0.3	2063.28
K 766.491	6948.68b	ppb	15.9193	0.2	268170
Mg 279.078	6532.01b	ppb	8.5527	0.1	15236.9
Mn 257.610	1259.99b	ppb	2.1252	0.2	336978
Mo 202.032	518.268b	ppb	1.1889	0.2	4252.57
Na 330.237	157345xb	ppb	269.933	0.2	8637.58
Ni 231.604	516.581b	ppb	2.3242	0.4	1597.16
Pb 220.353	1402.45b	ppb	3.8364	0.3	2946.24
Sb 206.834	516.266b	ppb	5.5663	1.1	635.441
Se 196.026	2050.18b	ppb	6.3531	0.3	1146.08
Sn 189.925	1027.80b	ppb	1.9478	0.2	1030.64
Sr 216.596	567.687b	ppb	1.4166	0.2	7298.76
Ti 334.941	1008.29b	ppb	2.4576	0.2	309842
Tl 190.794	2051.96b	ppb	4.8860	0.2	2261.38
V 292.401	497.621b	ppb	0.7656	0.2	14466.6
Zn 206.200	535.188b	ppb	4.2776	0.8	3971.051

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Cont Calib Verif (CCV) 5/7/2013, 9:42:49 PM Rack 2, Tube 1  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	488.551	489.785	486.023
Al 308.215	4774.06	4818.40	4832.72
As 188.980	504.002	500.117	499.016
B 249.678	509.244	516.534	518.476
Ba 389.178	5054.25	5105.45	5102.02
Be 313.042	506.426	510.345	510.366
Ca 370.602	4948	4983	4997
Cd 226.502	508.741	513.684	514.345
Co 228.615	517.418	519.300	520.903
Cr 267.716	5105.82	5146.41	5145.67
Cu 324.754	5036.11	4955.00	5021.36
Fe 271.441	4896.30	4922.62	4947.13
K 766.491	9961.67	10033.2	10093.7
Mg 279.078	4893.08	4951.73	4944.69
Mn 257.610	5209.45	5245.77	5267.88
Mo 202.032	487.809	495.059	497.212
Na 330.237	6955.92	7337.32	7380.26
Ni 231.604	2563.59	2586.72	2585.81
Pb 220.353	485.882	491.887	496.609
Sb 206.834	949.075	960.650	961.585
Se 196.026	4867.85	4872.86	4907.42
Sn 189.925	4925.44	4975.04	5048.67
Sr 216.596	2491.62	2513.12	2515.75
Ti 334.941	492.123	494.890	495.436
Tl 190.794	4966.51	5013.20	5004.27
V 292.401	4900.39	4928.87	4945.67
Zn 206.200	2571.78	2606.04	2603.13

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	488.120	ppb	1.9177	0.4	39392.4	97.62399
Al 308.215	4808.39	ppb	30.5846	0.6	22366.4	96.16782
As 188.980	501.045	ppb	2.6196	0.5	233.231	100.20901
B 249.678	514.751	ppb	4.8675	0.9	7102.29	20.59006Q
Ba 389.178	5087.24	ppb	28.6202	0.6	118234	101.74477
Be 313.042	509.046	ppb	2.2688	0.4	966063	101.80914
Ca 370.602	4976	ppb	25.02	0.5	15873	99.52277
Cd 226.502	512.257	ppb	3.0627	0.6	21293.7	102.45134
Co 228.615	519.207	ppb	1.7447	0.3	7035.02	103.84141
Cr 267.716	5132.63	ppb	23.2236	0.5	271137	102.65269
Cu 324.754	5004.16	ppb	43.2048	0.9	236332	100.08315
Fe 271.441	4922.02	ppb	25.4199	0.5	9428.20	98.44037
K 766.491	10029.5	ppb	66.1001	0.7	386905	100.29538
Mg 279.078	4929.84	ppb	32.0263	0.6	11433.0	98.59671
Mn 257.610	5241.03	ppb	29.5026	0.6	1401248	104.82067
Mo 202.032	493.360	ppb	4.9265	1.0	4039.30	98.67207
Na 330.237	7224.50	ppb	233.589	3.2	436.590	96.32664
Ni 231.604	2578.71	ppb	13.0978	0.5	7996.16	103.14837
Pb 220.353	491.459	ppb	5.3761	1.1	1053.64	98.29182
Sb 206.834	957.104	ppb	6.9686	0.7	1245.24	95.71035
Se 196.026	4882.71	ppb	21.5466	0.4	2713.88	97.65419
Sn 189.925	4983.05	ppb	62.0024	1.2	5044.35	99.66100
Sr 216.596	2506.83	ppb	13.2418	0.5	32192.2	100.27324
Ti 334.941	494.150	ppb	1.7762	0.4	151844	98.82993
Tl 190.794	4994.66	ppb	24.7882	0.5	5525.20	99.89323
V 292.401	4924.98	ppb	22.8897	0.5	143886	98.49954
Zn 206.200	2593.65	ppb	18.9979	0.7	4211.63	103.74593



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Cont Calib Blank (CCB) 5/7/2013, 9:48:14 PM Rack 2, Tube 2

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0281u	-0.0790u	-0.0602u
Al 308.215	-2.8527u	-1.8309u	-0.7722u
As 188.980	-0.7381u	7.0816	4.1931
B 249.678	14.1781	13.6394	12.5115
Ba 389.178	-0.8513u	0.5885	0.0204
Be 313.042	-0.0069u	-0.0063u	-0.0051u
Ca 370.602	1.313	-0.7637u	1.877
Cd 226.502	0.0964	-0.1259u	-0.0176u
Co 228.615	0.1915	0.0376	-0.0111u
Cr 267.716	-0.1737u	-0.3468u	-0.1352u
Cu 324.754	-0.0811u	0.4497	-0.1083u
Fe 271.441	6.5766	5.9775	-1.0824u
K 766.491	-1.5568u	-2.4552u	-1.8768u
Mg 279.078	-0.6533u	0.1601	-0.1733u
Mn 257.610	-0.1442u	-0.0909u	-0.0315u
Mo 202.032	0.8365	-0.2138u	0.3058
Na 330.237	-92.0516u	-123.023u	-103.548u
Ni 231.604	0.4860	0.7933	-0.7553u
Pb 220.353	1.7687	1.1073	0.2153
Sb 206.834	5.2900	5.6984	6.5991
Se 196.026	-2.0119u	5.7285	0.2380
Sn 189.925	2.7791	-1.0430u	-1.0716u
Sr 216.596	-0.6398u	-0.0554u	-0.2970u
Ti 334.941	0.0771	0.0386	0.0738
Tl 190.794	1.4185	-0.4148u	-3.2745u
V 292.401	-0.1180u	-0.1476u	-0.1042u
Zn 206.200	5.4303	6.0628	5.0914

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0558	ppb	0.0257	46.1	-25.4971	-0.05577
Al 308.215	-1.8186	ppb	1.0403	57.2	63.9069	-1.81861
As 188.980	3.5122	ppb	3.9541	112.6	-5.0448	3.51218
B 249.678	13.4430	ppb	0.8505	6.3	328.925	13.44300
Ba 389.178	-0.0808	ppb	0.7252	898.0	3.6690	-0.08076
Be 313.042	-0.0061	ppb	0.0009	15.0	-388.697	-0.00613
Ca 370.602	0.8087	ppb	1.391	172.0	9.994	0.80866
Cd 226.502	-0.0157	ppb	0.1112	708.7	36.6359	-0.01568
Co 228.615	0.0727	ppb	0.1058	145.5	8.4729	0.07270
Cr 267.716	-0.2186	ppb	0.1127	51.6	5.9306	-0.21857
Cu 324.754	0.0868	ppb	0.3146	362.5	267.260	0.08678
Fe 271.441	3.8239	ppb	4.2595	111.4	114.890	3.82389
K 766.491	-1.9629	ppb	0.4554	23.2	294.926	-1.96295
Mg 279.078	-0.2222	ppb	0.4089	184.1	38.6500	-0.22216
Mn 257.610	-0.0889	ppb	0.0564	63.5	50.0820	-0.08889
Mo 202.032	0.3095	ppb	0.5251	169.7	19.4093	0.30950
Na 330.237	-106.207	ppb	15.6558	14.7	63.1230	-106.20730
Ni 231.604	0.1746	ppb	0.8199	469.5	-5.3006	0.17465
Pb 220.353	1.0304	ppb	0.7795	75.7	33.7828	1.03043
Sb 206.834	5.8625	ppb	0.6698	11.4	10.8575	5.86250
Se 196.026	1.3182	ppb	3.9817	302.1	12.4916	1.31818
Sn 189.925	0.2215	ppb	2.2150	1000.0	-12.2593	0.22151
Sr 216.596	-0.3308	ppb	0.2936	88.8	16.0160	-0.33076
Ti 334.941	0.0632	ppb	0.0214	33.8	-22.3118	0.06317
Tl 190.794	-0.7569	ppb	2.3651	312.5	-16.5274	-0.75691
V 292.401	-0.1233	ppb	0.0222	18.0	-12.3049	-0.12326
Zn 206.200	5.5282	ppb	0.4930	8.9	37.1036	5.52818

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**680-89879-a-2-b (Samp)**                      **5/7/2013, 9:53:39 PM**                      **Rack 2, Tube 3**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3002u	-0.3777u	-0.5143u
Al 308.215	4.8895	6.5225	6.5386
As 188.980	2.0106	11.4837	5.9081
B 249.678	85.1055	86.0045	85.0458
Ba 389.178	77.1407	76.8925	77.5244
Be 313.042	-0.0378u	-0.0440u	-0.0473u
Ca 370.602	138144	137898	137566
Cd 226.502	-0.0312u	0.0164u	-0.0609u
Co 228.615	1.5937	1.7508	1.6243
Cr 267.716	-0.2568u	-0.2793u	-0.1943u
Cu 324.754	1.8092	1.9003	1.7439
Fe 271.441	10.3069	4.5891	2.9450
K 766.491	650.277	652.807	647.448
Mg 279.078	2501.48	2512.45	2508.06
Mn 257.610	438.270	439.874	439.153
Mo 202.032	0.7386	0.1943	0.8942
Na 330.237	148713x	148562x	148820x
Ni 231.604	-0.0246u	0.5223	1.6033
Pb 220.353	6.5849	5.4476	6.2236
Sb 206.834	12.4611	14.0200	11.8518
Se 196.026	14.0875	11.7777	15.7805
Sn 189.925	-0.3906u	0.0117	1.0863
Sr 216.596	78.5791	78.6907	78.9770
Ti 334.941	0.3013	0.2450	0.2465
Tl 190.794	-0.3062u	-1.7644u	1.1901
V 292.401	0.0870	0.1060	-0.3435u
Zn 206.200	3.2117	2.8458	5.5699

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3974b	ppb	0.1084	27.3	-55.2030
Al 308.215	5.9835b	ppb	0.9475	15.8	100.115
As 188.980	6.4675b	ppb	4.7612	73.6	-2.7171
B 249.678	85.3853b	ppb	0.5371	0.6	1301.92
Ba 389.178	77.1859b	ppb	0.3183	0.4	1805.43
Be 313.042	-0.0430b	ppb	0.0048	11.2	-427.720
Ca 370.602	137869b	ppb	290.4	0.2	442992
Cd 226.502	-0.0252b	ppb	0.0390	154.7	35.3619
Co 228.615	1.6563b	ppb	0.0833	5.0	29.8789
Cr 267.716	-0.2435b	ppb	0.0440	18.1	9.6212
Cu 324.754	1.8178b	ppb	0.0786	4.3	348.934
Fe 271.441	5.9470b	ppb	3.8642	65.0	119.120
K 766.491	650.177b	ppb	2.6809	0.4	25428.2
Mg 279.078	2507.33b	ppb	5.5177	0.2	5873.84
Mn 257.610	439.099b	ppb	0.8033	0.2	117485
Mo 202.032	0.6091b	ppb	0.3675	60.3	21.8579
Na 330.237	148698xb	ppb	129.622	0.1	8178.85
Ni 231.604	0.7004b	ppb	0.8284	118.3	-3.6692
Pb 220.353	6.0854b	ppb	0.5811	9.5	44.4111
Sb 206.834	12.7777b	ppb	1.1182	8.8	19.3935
Se 196.026	13.8819b	ppb	2.0093	14.5	19.5621
Sn 189.925	0.2358b	ppb	0.7635	323.8	-12.1089
Sr 216.596	78.7490b	ppb	0.2052	0.3	1050.06
Ti 334.941	0.2643b	ppb	0.0321	12.1	39.1738
Tl 190.794	-0.2935b	ppb	1.4773	503.3	-16.7268
V 292.401	-0.0502b	ppb	0.2542	506.5	-11.4026
Zn 206.200	3.8758b	ppb	1.4785	38.1	357.4098

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**680-89879-a-3-b (Samp)**                      **5/7/2013, 9:59:03 PM**                      **Rack 2, Tube 4**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0661u	-0.1241u	-0.3473u
Al 308.215	34.9127	34.9911	36.6804
As 188.980	-3.5996u	-3.6137u	1.2716
B 249.678	84.2442	83.6207	83.5879
Ba 389.178	94.0654	93.8182	94.3436
Be 313.042	-0.0116u	-0.0219u	-0.0127u
Ca 370.602	93388	93329	92954
Cd 226.502	0.0308	0.1224	0.0354
Co 228.615	13.1530	13.1752	13.2444
Cr 267.716	-0.0918	-0.2809u	-0.0448
Cu 324.754	2.3234	2.3421	2.0988
Fe 271.441	12.2061	6.0440	2.4211
K 766.491	647.200	647.857	643.539
Mg 279.078	1876.60	1874.41	1874.22
Mn 257.610	785.761	786.115	787.036
Mo 202.032	0.2341	-0.0501u	0.0197
Na 330.237	150359x	150824x	150200x
Ni 231.604	2.3944	1.1063	1.5783
Pb 220.353	328.883	324.348	327.208
Sb 206.834	14.5631	11.5812	12.0948
Se 196.026	5.7126	4.5931	14.0629
Sn 189.925	2.5790	-0.4649u	2.1184
Sr 216.596	54.6405	54.2352	54.0768
Ti 334.941	0.1914	0.1728	0.1405
Tl 190.794	3.3462	-3.9909u	3.0168
V 292.401	-0.3050u	-0.0754u	-0.2331u
Zn 206.200	4.3749	4.3172	3.1453

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1791b	ppb	0.1485	82.9	-34.5259
Al 308.215	35.5281b	ppb	0.9987	2.8	237.164
As 188.980	-1.9806b	ppb	2.8164	142.2	-7.0602
B 249.678	83.8176b	ppb	0.3698	0.4	1280.72
Ba 389.178	94.0757b	ppb	0.2629	0.3	2196.17
Be 313.042	-0.0154b	ppb	0.0057	36.8	-391.369
Ca 370.602	93223b	ppb	235.3	0.3	299556
Cd 226.502	0.0628b	ppb	0.0516	82.1	38.9933
Co 228.615	13.1909b	ppb	0.0477	0.4	185.779
Cr 267.716	-0.1392b	ppb	0.1250	89.8	16.8157
Cu 324.754	2.2547b	ppb	0.1354	6.0	369.538
Fe 271.441	6.8904b	ppb	4.9471	71.8	122.822
K 766.491	646.198b	ppb	2.3267	0.4	25274.8
Mg 279.078	1875.08b	ppb	1.3231	0.1	4394.44
Mn 257.610	786.304b	ppb	0.6579	0.1	210298
Mo 202.032	0.0679b	ppb	0.1481	218.1	17.4343
Na 330.237	150461xb	ppb	324.291	0.2	8274.97
Ni 231.604	1.6930b	ppb	0.6516	38.5	-0.5889
Pb 220.353	326.813b	ppb	2.2930	0.7	711.365
Sb 206.834	12.7464b	ppb	1.5941	12.5	19.3636
Se 196.026	8.1229b	ppb	5.1746	63.7	16.4727
Sn 189.925	1.4108b	ppb	1.6407	116.3	-10.9388
Sr 216.596	54.3175b	ppb	0.2907	0.5	730.329
Ti 334.941	0.1682b	ppb	0.0257	15.3	6.3626
Tl 190.794	0.7907b	ppb	4.1443	524.1	-16.0808
V 292.401	-0.2045b	ppb	0.1175	57.4	-15.8732
Zn 206.200	3.9458b	ppb	0.6938	17.6	35.5234

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**680-89879-a-4-b (Samp)**                      **5/7/2013, 10:04:28 PM**                      **Rack 2, Tube 5**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1914u	-0.4883u	-0.1631u
Al 308.215	61.3938	63.3176	60.8315
As 188.980	6.2697	1.5697	5.9630
B 249.678	43.4304	42.5774	43.1043
Ba 389.178	94.9363	95.1298	94.6849
Be 313.042	0.0146	0.0123	0.0209
Ca 370.602	52580	52644	52467
Cd 226.502	0.0721	0.0497	0.1413
Co 228.615	12.5695	13.5499	13.3529
Cr 267.716	-0.2114u	-0.1517u	-0.3361u
Cu 324.754	1.7542	1.7184	1.8878
Fe 271.441	8.9794	2.6940	11.5708
K 766.491	481.479	481.345	479.336
Mg 279.078	1143.25	1141.88	1145.77
Mn 257.610	527.134	526.764	526.369
Mo 202.032	-0.4213u	0.1209	-0.4017u
Na 330.237	146268x	145856x	146105x
Ni 231.604	-0.7925u	1.9936	1.7676
Pb 220.353	1344.11	1343.39	1347.68
Sb 206.834	35.1278	33.7651	31.6159
Se 196.026	7.6685	6.7159	3.7917
Sn 189.925	-0.3518u	2.2761	-2.0467u
Sr 216.596	31.4119	31.4986	31.3909
Ti 334.941	0.1165	0.1076	0.1550
Tl 190.794	-0.0404u	1.4928	0.4263u
V 292.401	-0.0666u	-0.3756u	-0.4903u
Zn 206.200	6.8017	4.8862	7.7356

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2809b	ppb	0.1802	64.1	-42.8030
Al 308.215	61.8476b	ppb	1.3037	2.1	359.260
As 188.980	4.6008b	ppb	2.6295	57.2	-4.1764
B 249.678	43.0374b	ppb	0.4304	1.0	729.176
Ba 389.178	94.9170b	ppb	0.2231	0.2	2213.80
Be 313.042	0.0160b	ppb	0.0045	27.9	-345.783
Ca 370.602	52564b	ppb	89.82	0.2	168909
Cd 226.502	0.0877b	ppb	0.0478	54.5	40.0699
Co 228.615	13.1574b	ppb	0.5186	3.9	185.338
Cr 267.716	-0.2331b	ppb	0.0941	40.4	10.5380
Cu 324.754	1.7868b	ppb	0.0893	5.0	347.455
Fe 271.441	7.7480b	ppb	4.5647	58.9	124.413
K 766.491	480.720b	ppb	1.2007	0.2	18897.4
Mg 279.078	1143.63b	ppb	1.9715	0.2	2694.65
Mn 257.610	526.756b	ppb	0.3825	0.1	140905
Mo 202.032	-0.2340b	ppb	0.3075	131.4	14.9661
Na 330.237	146076xb	ppb	207.629	0.1	8035.82
Ni 231.604	0.9896b	ppb	1.5474	156.4	-2.7716
Pb 220.353	1345.06b	ppb	2.3008	0.2	2828.45
Sb 206.834	33.5029b	ppb	1.7705	5.3	44.9914
Se 196.026	6.0587b	ppb	2.0202	33.3	15.2593
Sn 189.925	-0.0408b	ppb	2.1781	5337.1	-12.4350
Sr 216.596	31.4338b	ppb	0.0571	0.2	431.022
Ti 334.941	0.1264b	ppb	0.0252	19.9	-9.7433
Tl 190.794	0.6263b	ppb	0.7859	125.5	-15.8412
V 292.401	-0.3108b	ppb	0.2191	70.5	-18.8904
Zn 206.200	6.4745b	ppb	1.4526	22.4	9.6466

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680-89879-a-5-b (Samp)                      5/7/2013, 10:09:53 PM                      Rack 2, Tube 6  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4351u	-0.2468u	-0.3862u
Al 308.215	5.1501	6.3151	3.7321
As 188.980	0.7922	4.7864	5.9753
B 249.678	74.0883	73.9942	73.5304
Ba 389.178	65.6556	63.6652	64.8391
Be 313.042	-0.0364u	-0.0378u	-0.0373u
Ca 370.602	129528	129340	129275
Cd 226.502	0.1118	0.0231	0.0764
Co 228.615	2.8913	2.8654	2.9481
Cr 267.716	-0.4741u	-0.3293u	-0.2181u
Cu 324.754	1.4936	1.6135	1.7121
Fe 271.441	7.8328	-2.6186u	-0.0770
K 766.491	675.823	672.925	672.742
Mg 279.078	2395.88	2390.03	2375.55
Mn 257.610	885.231	882.162	882.824
Mo 202.032	0.0613	0.2805	-0.3099u
Na 330.237	150810x	150669x	150273x
Ni 231.604	0.3107	0.6808	0.8682
Pb 220.353	7.2552	5.8786	8.3757
Sb 206.834	11.9365	12.9692	16.3636
Se 196.026	-3.8097u	18.1799	3.8275
Sn 189.925	-0.1691u	2.8510	0.8631
Sr 216.596	71.3229	71.1509	71.5806
Ti 334.941	0.2467	0.1888	0.2424
Tl 190.794	-1.0102u	2.5754	3.1966
V 292.401	0.2397	-0.0069u	-0.3617u
Zn 206.200	4.1769	0.8396	2.4078

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3560b	ppb	0.0977	27.4	-49.2542
Al 308.215	5.0658b	ppb	1.2936	25.5	95.7879
As 188.980	3.8513b	ppb	2.7151	70.5	-4.0282
B 249.678	73.8710b	ppb	0.2987	0.4	1146.20
Ba 389.178	64.7200b	ppb	1.0005	1.5	1515.46
Be 313.042	-0.0372b	ppb	0.0007	2.0	-419.923
Ca 370.602	129381b	ppb	131.3	0.1	415732
Cd 226.502	0.0704b	ppb	0.0446	63.3	39.2968
Co 228.615	2.9016b	ppb	0.0423	1.5	46.7327
Cr 267.716	-0.3405b	ppb	0.1284	37.7	6.6398
Cu 324.754	1.6064b	ppb	0.1094	6.8	338.941
Fe 271.441	1.7124b	ppb	5.4506	318.3	111.430
K 766.491	673.830b	ppb	1.7284	0.3	26339.7
Mg 279.078	2387.15b	ppb	10.4666	0.4	5585.94
Mn 257.610	883.406b	ppb	1.6151	0.2	236263
Mo 202.032	0.0106b	ppb	0.2985	2804.2	16.9661
Na 330.237	150584xb	ppb	278.345	0.2	8281.70
Ni 231.604	0.6199b	ppb	0.2837	45.8	-3.9190
Pb 220.353	7.1698b	ppb	1.2507	17.4	46.7865
Sb 206.834	13.7564b	ppb	2.3161	16.8	20.6118
Se 196.026	6.0659b	ppb	11.1644	184.1	15.3619
Sn 189.925	1.1817b	ppb	1.5350	129.9	-11.1527
Sr 216.596	71.3515b	ppb	0.2163	0.3	953.855
Ti 334.941	0.2260b	ppb	0.0322	14.3	26.6220
Tl 190.794	1.5873b	ppb	2.2708	143.1	-15.3599
V 292.401	-0.0429b	ppb	0.3023	703.8	-11.0716
Zn 206.200	2.4747b	ppb	1.6697	67.5	37.1254

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**680-89879-a-6-b (Samp)**                      **5/7/2013, 10:15:18 PM**                      **Rack 2, Tube 7**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2324u	-0.2896u	-0.2976u
Al 308.215	25.6705	26.4240	23.7415
As 188.980	5.2837	1.7450	-1.6709u
B 249.678	99.1667	99.1104	100.452
Ba 389.178	85.2389	86.1185	86.4520
Be 313.042	-0.0371u	-0.0280u	-0.0324u
Ca 370.602	110061	109824	109670
Cd 226.502	0.3815	0.2102	0.0149u
Co 228.615	8.9228	9.8169	9.5816
Cr 267.716	0.0162	-0.2842u	0.1153
Cu 324.754	3.6355	3.3207	3.0076
Fe 271.441	7.3200	13.1702	11.7342
K 766.491	762.843	757.934	761.484
Mg 279.078	2110.60	2097.27	2098.20
Mn 257.610	1273.69	1269.83	1271.42
Mo 202.032	0.2500	-0.7922u	0.1023
Na 330.237	150060x	150090x	149856x
Ni 231.604	1.2905	0.1657	0.9685
Pb 220.353	56.7936	57.4659	55.2838
Sb 206.834	11.7715	5.8632	11.6407
Se 196.026	8.0935	2.8905	6.6766
Sn 189.925	1.2539	-0.9085u	1.2114
Sr 216.596	65.6427	65.2860	65.2222
Ti 334.941	0.5013	0.4521	0.4807
Tl 190.794	2.7475	2.0884	1.2248u
V 292.401	-0.2475u	-0.4332u	-0.5398u
Zn 206.200	3.7276	4.5186	4.1419

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2732b	ppb	0.0355	13.0	-40.3121
Al 308.215	25.2787b	ppb	1.3835	5.5	189.589
As 188.980	1.7859b	ppb	3.4775	194.7	-5.1460
B 249.678	99.5762b	ppb	0.7587	0.8	1493.85
Ba 389.178	85.9365b	ppb	0.6267	0.7	2007.66
Be 313.042	-0.0325b	ppb	0.0045	14.0	-417.969
Ca 370.602	109852b	ppb	196.8	0.2	352995
Cd 226.502	0.2022b	ppb	0.1834	90.7	44.7998
Co 228.615	9.4405b	ppb	0.4635	4.9	135.110
Cr 267.716	-0.0509b	ppb	0.2081	408.9	23.7808
Cu 324.754	3.3212b	ppb	0.3140	9.5	419.856
Fe 271.441	10.7415b	ppb	3.0488	28.4	129.371
K 766.491	760.754b	ppb	2.5345	0.3	29689.8
Mg 279.078	2102.03b	ppb	7.4436	0.4	4914.68
Mn 257.610	1271.65b	ppb	1.9397	0.2	340050
Mo 202.032	-0.1466b	ppb	0.5639	384.6	15.6805
Na 330.237	150002xb	ppb	127.683	0.1	8249.94
Ni 231.604	0.8082b	ppb	0.5793	71.7	-3.3343
Pb 220.353	56.5144b	ppb	1.1175	2.0	149.487
Sb 206.834	9.7585b	ppb	3.3740	34.6	15.6796
Se 196.026	5.8869b	ppb	2.6899	45.7	15.3702
Sn 189.925	0.5189b	ppb	1.2364	238.3	-11.8355
Sr 216.596	65.3836b	ppb	0.2266	0.3	874.715
Ti 334.941	0.4781b	ppb	0.0247	5.2	102.721
Tl 190.794	2.0202b	ppb	0.7636	37.8	-15.5078
V 292.401	-0.4068b	ppb	0.1479	36.4	-21.7611
Zn 206.200	4.1294b	ppb	0.3957	9.6	358231

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680-89879-a-7-b (Samp)                      5/7/2013, 10:20:43 PM                      Rack 2, Tube 8  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5983u	-0.4069u	-0.2617u
Al 308.215	24.6162	25.9706	25.8109
As 188.980	6.8982	7.8609	6.6201
B 249.678	78.2522	80.1208	80.7491
Ba 389.178	93.4890	94.1824	94.4418
Be 313.042	-0.0170u	-0.0287u	-0.0318u
Ca 370.602	104928	104944	104894
Cd 226.502	0.0852	0.1570	0.0940
Co 228.615	10.8348	11.9801	11.4993
Cr 267.716	-0.2039u	-0.0966	-0.0446
Cu 324.754	2.3365	2.7059	2.7731
Fe 271.441	6.8844	5.3897	10.5795
K 766.491	587.283	585.756	589.625
Mg 279.078	1909.68	1910.77	1912.69
Mn 257.610	1095.05	1095.95	1095.28
Mo 202.032	-0.3040u	0.0925	0.1466
Na 330.237	148531x	149729x	149554x
Ni 231.604	0.3142	0.6896	1.9394
Pb 220.353	218.473	219.726	218.774
Sb 206.834	26.4913	27.9122	24.4596
Se 196.026	7.8508	12.0037	9.5243
Sn 189.925	0.0358	1.6497	2.1298
Sr 216.596	57.8145	57.7585	57.8225
Ti 334.941	0.1883	0.1780	0.1863
Tl 190.794	-3.4752u	2.1079	1.3773u
V 292.401	-0.3144u	-0.6538u	-0.1391u
Zn 206.200	4.0052	4.2568	3.6972

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4223b	ppb	0.1688	40.0	-52.8494
Al 308.215	25.4659b	ppb	0.7402	2.9	190.478
As 188.980	7.1264b	ppb	0.6511	9.1	-2.6197
B 249.678	79.7074b	ppb	1.2988	1.6	1225.13
Ba 389.178	94.0377b	ppb	0.4926	0.5	2195.38
Be 313.042	-0.0258b	ppb	0.0078	30.2	-406.913
Ca 370.602	104922b	ppb	25.64	0.0	337151
Cd 226.502	0.1121b	ppb	0.0392	35.0	41.0562
Co 228.615	11.4381b	ppb	0.5751	5.0	162.090
Cr 267.716	-0.1151b	ppb	0.0812	70.6	19.5352
Cu 324.754	2.6052b	ppb	0.2351	9.0	386.075
Fe 271.441	7.6179b	ppb	2.6715	35.1	123.884
K 766.491	587.555b	ppb	1.9490	0.3	23014.7
Mg 279.078	1911.04b	ppb	1.5216	0.1	4472.78
Mn 257.610	1095.43b	ppb	0.4695	0.0	292938
Mo 202.032	-0.0216b	ppb	0.2461	1137.8	16.7025
Na 330.237	149271xb	ppb	646.710	0.4	8210.09
Ni 231.604	0.9811b	ppb	0.8509	86.7	-2.7980
Pb 220.353	218.991b	ppb	0.6541	0.3	487.263
Sb 206.834	26.2877b	ppb	1.7353	6.6	36.0809
Se 196.026	9.7929b	ppb	2.0894	21.3	17.4819
Sn 189.925	1.2718b	ppb	1.0970	86.3	-11.0745
Sr 216.596	57.7985b	ppb	0.0349	0.1	776.547
Ti 334.941	0.1842b	ppb	0.0055	3.0	11.5399
Tl 190.794	0.0033b	ppb	3.0346	91309.2	-17.4596
V 292.401	-0.3691b	ppb	0.2617	70.9	-20.6922
Zn 206.200	3.9864b	ppb	0.2893	7.0	35.5899

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680-89879-a-8-b (Samp)                      5/7/2013, 10:26:08 PM                      Rack 2, Tube 9  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6633u	-0.3190u	-0.5188u
Al 308.215	29.9840	29.9138	32.6977
As 188.980	3.7868	2.3754	-0.4095
B 249.678	79.7720	81.5949	80.5840
Ba 389.178	112.312	112.554	112.412
Be 313.042	-0.0131u	-0.0132u	-0.0207u
Ca 370.602	103496	103531	103589
Cd 226.502	0.0038u	0.1337	0.0607
Co 228.615	10.6726	11.2766	11.0237
Cr 267.716	-0.2868u	0.1270	-0.0641
Cu 324.754	1.9853	2.3547	2.6088
Fe 271.441	-0.0555	10.2626	-1.7739u
K 766.491	629.130	630.633	635.165
Mg 279.078	1940.01	1945.59	1944.93
Mn 257.610	780.482	781.119	780.956
Mo 202.032	-0.3919u	-0.0882u	0.3018
Na 330.237	152186x	153281x	152910x
Ni 231.604	0.2409	0.9584	0.8578
Pb 220.353	1096.72	1097.30	1095.31
Sb 206.834	38.0289	32.1461	36.8708
Se 196.026	11.0606	6.6832	4.6269
Sn 189.925	-0.3257u	-3.4533u	0.0894
Sr 216.596	57.2287	57.7088	58.1051
Ti 334.941	0.1604	0.2057	0.2264
Tl 190.794	0.2219u	-1.8381u	1.4636
V 292.401	-0.4740u	-0.7868u	-0.1360u
Zn 206.200	5.1573	4.1437	4.6374

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5003b	ppb	0.1729	34.6	-60.7026
Al 308.215	30.8651b	ppb	1.5874	5.1	215.514
As 188.980	1.9176b	ppb	2.1353	111.4	-5.1249
B 249.678	80.6503b	ppb	0.9132	1.1	1237.89
Ba 389.178	112.426b	ppb	0.1216	0.1	2622.68
Be 313.042	-0.0157b	ppb	0.0043	27.7	-388.686
Ca 370.602	103539b	ppb	46.83	0.0	332698
Cd 226.502	0.0660b	ppb	0.0651	98.6	39.1227
Co 228.615	10.9910b	ppb	0.3033	2.8	156.057
Cr 267.716	-0.0746b	ppb	0.2071	277.5	20.2477
Cu 324.754	2.3163b	ppb	0.3135	13.5	372.439
Fe 271.441	2.8111b	ppb	6.5102	231.6	114.838
K 766.491	631.643b	ppb	3.1416	0.5	24713.9
Mg 279.078	1943.51b	ppb	3.0507	0.2	4554.00
Mn 257.610	780.852b	ppb	0.3308	0.0	208842
Mo 202.032	-0.0595b	ppb	0.3478	584.9	16.3937
Na 330.237	152792xb	ppb	556.658	0.4	8402.12
Ni 231.604	0.6857b	ppb	0.3885	56.7	-3.7148
Pb 220.353	1096.45b	ppb	1.0219	0.1	2311.60
Sb 206.834	35.6819b	ppb	3.1164	8.7	47.6807
Se 196.026	7.4569b	ppb	3.2859	44.1	16.1029
Sn 189.925	-1.2299b	ppb	1.9367	157.5	-13.6123
Sr 216.596	57.6809b	ppb	0.4388	0.8	774.855
Ti 334.941	0.1975b	ppb	0.0338	17.1	15.4880
Tl 190.794	-0.0509b	ppb	1.6677	3278.9	-17.0078
V 292.401	-0.4656b	ppb	0.3255	69.9	-23.5132
Zn 206.200	4.6461b	ppb	0.5068	10.9	576648



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680-89879-a-9-b (Samp) 5/7/2013, 10:31:34 PM Rack 2, Tube 10

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3519u	-0.2508u	-0.2340u
Al 308.215	77.8352	81.7979	81.5250
As 188.980	3.5520	-0.3367	8.8584
B 249.678	75.7495	75.0915	76.1341
Ba 389.178	123.671	123.458	123.753
Be 313.042	0.0268	0.0214	0.0244
Ca 370.602	68824	68855	69077
Cd 226.502	0.0734	0.0641	0.0454
Co 228.615	22.6639	22.6197	22.4094
Cr 267.716	0.2626	-0.2033u	-0.2602u
Cu 324.754	2.3811	2.5757	2.2142
Fe 271.441	8.7931	2.5746	5.7990
K 766.491	595.064	595.913	600.381
Mg 279.078	1488.84	1497.47	1500.65
Mn 257.610	876.403	876.711	878.094
Mo 202.032	0.1845	-0.0463u	-0.2242u
Na 330.237	148098x	148937x	147909x
Ni 231.604	1.1213	2.7254	2.6625
Pb 220.353	1849.30	1846.14	1854.15
Sb 206.834	24.7780	29.2911	24.8064
Se 196.026	-0.6669u	0.4096	0.5547
Sn 189.925	3.0092	-1.3730u	2.3956
Sr 216.596	38.4925	38.2345	38.5699
Ti 334.941	0.1166	0.1574	0.1183
Tl 190.794	-0.1376u	-0.6121u	-0.1209u
V 292.401	-0.0705u	-0.3828u	-0.3923u
Zn 206.200	5.3440	6.1450	8.5621

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2789b	ppb	0.0638	22.9	-41.3048
Al 308.215	80.3860b	ppb	2.2133	2.8	445.295
As 188.980	4.0246b	ppb	4.6157	114.7	-4.3433
B 249.678	75.6584b	ppb	0.5273	0.7	1170.37
Ba 389.178	123.628b	ppb	0.1521	0.1	2881.77
Be 313.042	0.0242b	ppb	0.0027	11.2	-324.910
Ca 370.602	68919b	ppb	137.6	0.2	221467
Cd 226.502	0.0610b	ppb	0.0143	23.4	38.9588
Co 228.615	22.5644b	ppb	0.1360	0.6	312.464
Cr 267.716	-0.0670b	ppb	0.2869	428.3	21.0213
Cu 324.754	2.3903b	ppb	0.1810	7.6	375.933
Fe 271.441	5.7222b	ppb	3.1100	54.3	122.222
K 766.491	597.119b	ppb	2.8564	0.5	23383.3
Mg 279.078	1495.65b	ppb	6.1134	0.4	3508.71
Mn 257.610	877.069b	ppb	0.9008	0.1	234559
Mo 202.032	-0.0287b	ppb	0.2049	714.7	16.6449
Na 330.237	148315xb	ppb	547.144	0.4	8157.90
Ni 231.604	2.1697b	ppb	0.9085	41.9	0.8904
Pb 220.353	1849.86b	ppb	4.0316	0.2	3878.14
Sb 206.834	26.2919b	ppb	2.5975	9.9	36.0899
Se 196.026	0.0991b	ppb	0.6674	673.3	12.0599
Sn 189.925	1.3440b	ppb	2.3728	176.6	-11.0202
Sr 216.596	38.4323b	ppb	0.1756	0.5	523.019
Ti 334.941	0.1308b	ppb	0.0231	17.6	-6.8525
Tl 190.794	-0.2902b	ppb	0.2789	96.1	-17.4234
V 292.401	-0.2819b	ppb	0.1831	65.0	-18.0993
Zn 206.200	6.6837b	ppb	1.6753	25.1	99870

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**680-89916-a-1-b (Samp)**                      **5/7/2013, 10:37:00 PM**                      **Rack 2, Tube 11**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1816u	-0.1327u	-0.0597u
Al 308.215	9.2926	7.6104	8.2715
As 188.980	6.2056	-9.4807u	-2.6799u
B 249.678	51.4989	52.1726	52.0784
Ba 389.178	13.8174	13.4745	13.5071
Be 313.042	0.3033	0.3149	0.3022
Ca 370.602	3513	3505	3545
Cd 226.502	0.4505	0.2605	0.5591
Co 228.615	24.1507	23.5137	23.9676
Cr 267.716	-0.0862u	-0.0733u	0.1747
Cu 324.754	1.3545	1.4397	1.2779
Fe 271.441	-0.5008	-4.9961u	-4.8617u
K 766.491	135.929	136.033	136.249
Mg 279.078	154.783	159.208	158.454
Mn 257.610	121.504	121.164	122.220
Mo 202.032	-0.5905u	-0.0992u	-0.1001u
Na 330.237	141506x	140587x	141879x
Ni 231.604	4.3930	3.9027	3.8105
Pb 220.353	3.2590	6.6853	1.8551
Sb 206.834	-0.9636u	-0.1640u	-0.3234u
Se 196.026	-4.2847u	3.1363	5.3852
Sn 189.925	-0.6726u	0.8460	2.0983
Sr 216.596	2.8456	2.8852	2.7059
Ti 334.941	-0.0084u	0.0145u	-0.0602u
Tl 190.794	-1.3817u	0.4322	-2.2297u
V 292.401	-0.1406u	0.0931	-0.2490u
Zn 206.200	13.7269	12.1437	12.6959

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1247b	ppb	0.0614	49.2	-30.6320
Al 308.215	8.3915b	ppb	0.8475	10.1	111.223
As 188.980	-1.9850b	ppb	7.8662	396.3	-7.6552
B 249.678	51.9166b	ppb	0.3648	0.7	849.279
Ba 389.178	13.5996b	ppb	0.1893	1.4	321.916
Be 313.042	0.3068b	ppb	0.0070	2.3	190.353
Ca 370.602	3521b	ppb	21.18	0.6	11323
Cd 226.502	0.4234b	ppb	0.1511	35.7	53.9424
Co 228.615	23.8773b	ppb	0.3279	1.4	330.206
Cr 267.716	0.0051b	ppb	0.1470	2903.8	21.0900
Cu 324.754	1.3574b	ppb	0.0809	6.0	327.191
Fe 271.441	-3.4529b	ppb	2.5574	74.1	105.324
K 766.491	136.071b	ppb	0.1636	0.1	5614.69
Mg 279.078	157.482b	ppb	2.3674	1.5	403.964
Mn 257.610	121.630b	ppb	0.5391	0.4	32590.4
Mo 202.032	-0.2632b	ppb	0.2834	107.7	14.7275
Na 330.237	141324xb	ppb	664.900	0.5	7776.60
Ni 231.604	4.0354b	ppb	0.3131	7.8	6.6795
Pb 220.353	3.9332b	ppb	2.4847	63.2	39.8424
Sb 206.834	-0.4836b	ppb	0.4232	87.5	3.0387
Se 196.026	1.4123b	ppb	5.0602	358.3	12.5773
Sn 189.925	0.7572b	ppb	1.3876	183.2	-11.6525
Sr 216.596	2.8122b	ppb	0.0942	3.4	56.8290
Ti 334.941	-0.0180b	ppb	0.0383	212.4	-58.5811
Tl 190.794	-1.0597b	ppb	1.3599	128.3	-17.0473
V 292.401	-0.0989b	ppb	0.1748	176.8	-12.6865
Zn 206.200	12.8555b	ppb	0.8936	6.9	30.0476

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89920-a-1-c (Samp)                      5/7/2013, 10:42:26 PM                      Rack 2, Tube 12  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6007u	-0.3068u	-0.1595u
Al 308.215	3.5391	0.0431	4.9610
As 188.980	-0.9615	2.0282	2.9873
B 249.678	5.9843	6.7987	6.4159
Ba 389.178	49.9659	49.8473	49.5073
Be 313.042	-0.0288u	-0.0313u	-0.0412u
Ca 370.602	87926	88009	88062
Cd 226.502	0.1825	-0.0005u	-0.1661u
Co 228.615	-0.1209u	0.6931	-0.0905u
Cr 267.716	-0.2868u	-0.2503u	-0.3347u
Cu 324.754	0.1376	0.5186	0.3346
Fe 271.441	4.3446	-0.0650u	9.8666
K 766.491	356.374	358.512	357.330
Mg 279.078	1380.67	1376.00	1375.39
Mn 257.610	54.7442	54.7221	54.5288
Mo 202.032	0.1762	0.2892	0.0854
Na 330.237	151324x	149452x	150167x
Ni 231.604	0.8559	0.8395	2.2254
Pb 220.353	1.4092	-1.1685u	0.8829
Sb 206.834	3.1960	4.1841	4.1729
Se 196.026	-3.0836u	4.6825	2.1246
Sn 189.925	-1.2839u	-1.3207u	3.6122
Sr 216.596	597.759	597.132	601.496
Ti 334.941	0.0355	0.1639	0.0946
Tl 190.794	-3.1220u	-3.3842u	-1.0295u
V 292.401	0.1324	-0.4422u	-0.3677u
Zn 206.200	3.4668	3.7278	3.1169

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3557b	ppb	0.2246	63.2	-79.1130
Al 308.215	2.8477b	ppb	2.5308	88.9	85.5416
As 188.980	1.3513b	ppb	2.0596	152.4	-5.4983
B 249.678	6.3996b	ppb	0.4075	6.4	233.663
Ba 389.178	49.7735b	ppb	0.2380	0.5	1165.58
Be 313.042	-0.0338b	ppb	0.0066	19.4	-427.759
Ca 370.602	87999b	ppb	68.48	0.1	282749
Cd 226.502	0.0053b	ppb	0.1744	3302.9	36.5952
Co 228.615	0.1605b	ppb	0.4615	287.4	9.6677
Cr 267.716	-0.2906b	ppb	0.0423	14.6	5.3378
Cu 324.754	0.3302b	ppb	0.1905	57.7	278.744
Fe 271.441	4.7154b	ppb	4.9762	105.5	116.567
K 766.491	357.405b	ppb	1.0708	0.3	14144.8
Mg 279.078	1377.35b	ppb	2.8889	0.2	3247.63
Mn 257.610	54.6650b	ppb	0.1185	0.2	14701.1
Mo 202.032	0.1836b	ppb	0.1021	55.6	18.3802
Na 330.237	150314xb	ppb	944.801	0.6	8266.99
Ni 231.604	1.3069b	ppb	0.7955	60.9	-1.7870
Pb 220.353	0.3746b	ppb	1.3620	363.6	32.4342
Sb 206.834	3.8510b	ppb	0.5672	14.7	8.3765
Se 196.026	1.2412b	ppb	3.9577	318.9	12.4642
Sn 189.925	0.3359b	ppb	2.8374	844.8	-12.0324
Sr 216.596	598.796b	ppb	2.3594	0.4	7732.64
Ti 334.941	0.0980b	ppb	0.0643	65.6	-17.6606
Tl 190.794	-2.5119b	ppb	1.2905	51.4	-18.5657
V 292.401	-0.2258b	ppb	0.3125	138.4	-16.5262
Zn 206.200	3.4372b	ppb	0.3065	8.9	4.6949

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Verif (CCV) 5/7/2013, 10:47:52 PM Rack 2, Tube 13  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	488.526	486.536	496.004
Al 308.215	4821.07	4808.88	4871.91
As 188.980	491.984	496.259	497.396
B 249.678	500.531	504.074	506.657
Ba 389.178	5096.84	5081.00	5132.87
Be 313.042	512.287	509.309	515.190
Ca 370.602	4987	4975	5048
Cd 226.502	512.037	510.643	516.276
Co 228.615	521.300	518.222	524.577
Cr 267.716	5156.26	5140.45	5186.88
Cu 324.754	4967.85	5040.90	5075.35
Fe 271.441	4937.34	4942.12	4975.86
K 766.491	10089.0	10006.3	10075.9
Mg 279.078	4943.80	4939.89	4984.67
Mn 257.610	5240.75	5232.49	5298.90
Mo 202.032	492.593	491.645	500.851
Na 330.237	7125.03	7241.76	7364.35
Ni 231.604	2582.36	2573.14	2599.46
Pb 220.353	492.330	490.822	495.996
Sb 206.834	962.511	955.761	971.020
Se 196.026	4878.99	4860.68	4912.07
Sn 189.925	4976.43	5008.83	5062.35
Sr 216.596	2508.69	2506.45	2530.73
Ti 334.941	495.269	493.035	498.112
Tl 190.794	5004.64	4996.63	5018.04
V 292.401	4942.22	4916.01	4962.40
Zn 206.200	2604.53	2597.10	2619.16

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	490.355	ppb	4.9920	1.0	39573.1	98.07108
Al 308.215	4833.95	ppb	33.4301	0.7	22485.1	96.67908
As 188.980	495.213	ppb	2.8535	0.6	230.436	99.04259
B 249.678	503.754	ppb	3.0756	0.6	6953.51	20.15015Q
Ba 389.178	5103.57	ppb	26.5825	0.5	118614	102.07144
Be 313.042	512.262	ppb	2.9408	0.6	972169	102.45235
Ca 370.602	5003	ppb	39.38	0.8	15960	100.06739
Cd 226.502	512.985	ppb	2.9335	0.6	21324.0	102.59703
Co 228.615	521.366	ppb	3.1779	0.6	7064.26	104.27329
Cr 267.716	5161.20	ppb	23.6090	0.5	272646	103.22394
Cu 324.754	5028.04	ppb	54.8924	1.1	237459	100.56073
Fe 271.441	4951.77	ppb	20.9981	0.4	9484.27	99.03543
K 766.491	10057.1	ppb	44.4481	0.4	387967	100.57083
Mg 279.078	4956.12	ppb	24.7992	0.5	11494.0	99.12239
Mn 257.610	5257.38	ppb	36.1935	0.7	1405618	105.14760
Mo 202.032	495.030	ppb	5.0634	1.0	4052.91	99.00597
Na 330.237	7243.71	ppb	119.672	1.7	437.501	96.58286
Ni 231.604	2584.99	ppb	13.3565	0.5	8015.65	103.39959
Pb 220.353	493.049	ppb	2.6607	0.5	1056.94	98.60989
Sb 206.834	963.097	ppb	7.6464	0.8	1252.98	96.30974
Se 196.026	4883.92	ppb	26.0483	0.5	2714.55	97.67832
Sn 189.925	5015.87	ppb	43.3926	0.9	5077.66	100.31746
Sr 216.596	2515.29	ppb	13.4199	0.5	32300.8	100.61160
Ti 334.941	495.472	ppb	2.5449	0.5	152251	99.09441
Tl 190.794	5006.43	ppb	10.8192	0.2	5538.25	100.12869
V 292.401	4940.21	ppb	23.2580	0.5	144330	98.80422
Zn 206.200	2606.93	ppb	11.2211	0.4	4233.20	104.27724

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Cont Calib Blank (CCB)                      5/7/2013, 10:53:17 PM                      Rack 2, Tube 14  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1544u	-0.5207u	-0.5801u
Al 308.215	-1.5969u	-1.7901u	-0.1537u
As 188.980	0.7843	0.5843	-0.3588u
B 249.678	7.3756	6.4989	6.0740
Ba 389.178	-0.9737u	-0.9732u	-0.1845u
Be 313.042	-0.0005u	-0.0024u	-0.0035u
Ca 370.602	1.420	-0.1559u	1.738
Cd 226.502	-0.1420u	-0.1515u	-0.1211u
Co 228.615	-0.2861u	-0.0575u	0.3916
Cr 267.716	-0.0194u	-0.2863u	-0.1719u
Cu 324.754	-0.1285u	0.4045	0.1190
Fe 271.441	-4.3006u	0.4454	0.2791
K 766.491	-2.0241u	-1.8673u	-1.8675u
Mg 279.078	-2.1571u	0.2575	-1.6308u
Mn 257.610	-0.1417u	-0.0774u	-0.1403u
Mo 202.032	-0.0960u	-0.1475u	0.1271
Na 330.237	-44.4122u	-29.7649u	-77.3678u
Ni 231.604	-1.4266u	0.2892	0.5695
Pb 220.353	1.2198	-1.1537u	0.7265
Sb 206.834	2.2041	6.0773	4.1567
Se 196.026	1.1345	-4.1520u	-1.0608u
Sn 189.925	-0.6086u	3.0808	-0.2824u
Sr 216.596	-0.4159u	-0.5993u	0.3778
Ti 334.941	0.0001	-0.0174u	0.0171
Tl 190.794	-1.0998u	4.3230	-2.6831u
V 292.401	-0.0503u	-0.1892u	0.0030
Zn 206.200	0.0756	-0.4018u	1.0169

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.4184	ppb	0.2306	55.1	-54.8431	-0.41842
Al 308.215	-1.1802	ppb	0.8942	75.8	66.8104	-1.18024
As 188.980	0.3366	ppb	0.6105	181.4	-6.5662	0.33662
B 249.678	6.6495	ppb	0.6637	10.0	237.048	6.64950
Ba 389.178	-0.7105	ppb	0.4555	64.1	-10.9695	-0.71045
Be 313.042	-0.0022	ppb	0.0015	70.6	-381.066	-0.00215
Ca 370.602	1.001	ppb	1.014	101.3	10.84	1.00089
Cd 226.502	-0.1382	ppb	0.0155	11.2	31.5457	-0.13819
Co 228.615	0.0160	ppb	0.3448	2154.9	7.7257	0.01600
Cr 267.716	-0.1592	ppb	0.1339	84.1	9.0676	-0.15921
Cu 324.754	0.1317	ppb	0.2667	202.6	269.363	0.13167
Fe 271.441	-1.1920	ppb	2.6934	225.9	105.522	-1.19202
K 766.491	-1.9196	ppb	0.0905	4.7	296.594	-1.91965
Mg 279.078	-1.1768	ppb	1.2697	107.9	36.4257	-1.17679
Mn 257.610	-0.1198	ppb	0.0367	30.6	41.8030	-0.11980
Mo 202.032	-0.0388	ppb	0.1460	376.4	16.5622	-0.03878
Na 330.237	-50.5151	ppb	24.3811	48.3	66.2057	-50.51506
Ni 231.604	-0.1893	ppb	1.0806	570.7	-6.4301	-0.18934
Pb 220.353	0.2642	ppb	1.2525	474.1	32.1905	0.26418
Sb 206.834	4.1460	ppb	1.9366	46.7	8.7485	4.14601
Se 196.026	-1.3594	ppb	2.6559	195.4	11.0106	-1.35944
Sn 189.925	0.7299	ppb	2.0424	279.8	-11.7433	0.72991
Sr 216.596	-0.2125	ppb	0.5194	244.4	17.5669	-0.21249
Ti 334.941	-0.0001	ppb	0.0172	23995.6	-41.7554	-0.00007
Tl 190.794	0.1800	ppb	3.6742	2040.8	-15.4864	0.18004
V 292.401	-0.0788	ppb	0.0993	125.9	-10.8947	-0.07882
Zn 206.200	0.2302	ppb	0.7219	313.5	30.5341	0.23023

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**mb 680-275602/1-a (Samp)**      **5/7/2013, 10:58:41 PM**      **Rack 2, Tube 15**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1033	-0.0994u	-0.4772u
Al 308.215	-0.7070u	-0.9047u	0.4815
As 188.980	-0.3613u	3.2899	-0.7672u
B 249.678	3.8450	2.8104	3.2588
Ba 389.178	-0.0601u	-0.5996u	-0.8618u
Be 313.042	-0.0121u	-0.0012u	-0.0036u
Ca 370.602	1.744	-0.3002u	1.574
Cd 226.502	0.1168	-0.2207u	0.0208
Co 228.615	0.6795	0.7200	-0.3670u
Cr 267.716	-0.1652u	-0.1403u	0.0602
Cu 324.754	0.1399	-0.4092u	-0.6228u
Fe 271.441	3.1841	-1.0207u	-2.1091u
K 766.491	-1.4719u	-0.7466u	-1.7516u
Mg 279.078	-0.5248u	2.3213	0.4885
Mn 257.610	-0.0778u	-0.0366u	-0.0458u
Mo 202.032	0.1388	-0.1111u	-0.5636u
Na 330.237	49.4431	24.1362	75.6740
Ni 231.604	0.3963	-0.2869u	0.0854
Pb 220.353	3.4816	0.4909	1.7980
Sb 206.834	1.6464	-0.6393u	-1.4844u
Se 196.026	2.3633	3.9755	-0.0034u
Sn 189.925	-1.2369u	3.6658	-1.5582u
Sr 216.596	0.1040	0.1988	-0.3587u
Ti 334.941	-0.0244u	0.0040	0.0551
Tl 190.794	1.5403	-2.9908u	0.7982
V 292.401	-0.0680u	-0.3032u	0.3760
Zn 206.200	1.0061	1.4900	0.2102

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1577	ppb	0.2947	186.8	-33.7572
Al 308.215	-0.3767	ppb	0.7498	199.0	70.5378
As 188.980	0.7205	ppb	2.2345	310.1	-6.3822
B 249.678	3.3047	ppb	0.5188	15.7	191.812
Ba 389.178	-0.5072	ppb	0.4087	80.6	-6.2429
Be 313.042	-0.0056	ppb	0.0057	101.3	-387.686
Ca 370.602	1.006	ppb	1.135	112.8	10.95
Cd 226.502	-0.0277	ppb	0.1739	628.0	36.1225
Co 228.615	0.3442	ppb	0.6162	179.1	12.1616
Cr 267.716	-0.0818	ppb	0.1236	151.1	13.1568
Cu 324.754	-0.2974	ppb	0.3935	132.3	249.120
Fe 271.441	0.0181	ppb	2.7953	15463.1	107.836
K 766.491	-1.3234	ppb	0.5187	39.2	319.575
Mg 279.078	0.7617	ppb	1.4426	189.4	40.9409
Mn 257.610	-0.0534	ppb	0.0216	40.4	59.5668
Mo 202.032	-0.1786	ppb	0.3561	199.3	15.4189
Na 330.237	49.7511	ppb	25.7703	51.8	71.6686
Ni 231.604	0.0649	ppb	0.3421	526.7	-5.6411
Pb 220.353	1.9235	ppb	1.4993	77.9	35.6405
Sb 206.834	-0.1591	ppb	1.6197	1018.0	3.4345
Se 196.026	2.1118	ppb	2.0013	94.8	12.9306
Sn 189.925	0.2902	ppb	2.9277	1008.8	-12.1895
Sr 216.596	-0.0186	ppb	0.2983	1600.2	20.0483
Ti 334.941	0.0116	ppb	0.0403	347.4	-38.1694
Tl 190.794	-0.2174	ppb	2.4303	1117.7	-15.9277
V 292.401	0.0016	ppb	0.3449	21412.3	-8.5444
Zn 206.200	0.9021	ppb	0.6462	171.8	39.5609

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

ics 680-275602/2-a (Samp)      5/7/2013, 11:04:06 PM      Rack 2, Tube 16  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	49.6115	50.0623	49.5544
Al 308.215	4837.19	4843.40	4794.55
As 188.980	106.292	111.907	102.367
B 249.678	193.272	195.500	195.269
Ba 389.178	103.065	104.268	103.175
Be 313.042	53.0354	53.3052	52.8592
Ca 370.602	4910	4941	4896
Cd 226.502	51.9709	52.4683	52.2213
Co 228.615	52.3086	53.3432	51.3647
Cr 267.716	105.079	105.719	105.400
Cu 324.754	105.656	106.294	102.930
Fe 271.441	4945.25	4986.48	4953.00
K 766.491	4881.23	4927.10	4914.17
Mg 279.078	4929.67	4951.35	4920.89
Mn 257.610	540.436	543.619	540.808
Mo 202.032	100.578	100.753	99.6969
Na 330.237	4807.23	4778.13	4812.68
Ni 231.604	102.861	103.382	102.080
Pb 220.353	49.5690	52.4044	49.3795
Sb 206.834	49.7558	54.2250	44.5342
Se 196.026	95.2999	100.725	92.8625
Sn 189.925	192.766	200.895	197.887
Sr 216.596	102.234	102.516	101.265
Ti 334.941	100.194	100.933	100.184
Tl 190.794	38.4279	38.4026	40.4579
V 292.401	101.236	101.806	101.569
Zn 206.200	105.760	104.932	103.692

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.7427	ppb	0.2782	0.6	4000.37
Al 308.215	4825.05	ppb	26.5971	0.6	22470.6
As 188.980	106.855	ppb	4.7944	4.5	44.4428
B 249.678	194.680	ppb	1.2253	0.6	2773.45
Ba 389.178	103.503	ppb	0.6646	0.6	2430.98
Be 313.042	53.0666	ppb	0.2246	0.4	100380
Ca 370.602	4916	ppb	22.96	0.5	15431
Cd 226.502	52.2202	ppb	0.2487	0.5	2220.78
Co 228.615	52.3388	ppb	0.9896	1.9	713.966
Cr 267.716	105.399	ppb	0.3198	0.3	5588.16
Cu 324.754	104.960	ppb	1.7869	1.7	5218.34
Fe 271.441	4961.58	ppb	21.9134	0.4	9373.73
K 766.491	4907.50	ppb	23.6486	0.5	189504
Mg 279.078	4933.97	ppb	15.6774	0.3	11525.9
Mn 257.610	541.621	ppb	1.7401	0.3	144930
Mo 202.032	100.343	ppb	0.5662	0.6	836.679
Na 330.237	4799.35	ppb	18.5761	0.4	327.217
Ni 231.604	102.774	ppb	0.6551	0.6	313.195
Pb 220.353	50.4510	ppb	1.6944	3.4	136.537
Sb 206.834	49.5050	ppb	4.8503	9.8	65.0217
Se 196.026	96.2960	ppb	4.0250	4.2	65.2063
Sn 189.925	197.183	ppb	4.1099	2.1	187.623
Sr 216.596	102.005	ppb	0.6562	0.6	1329.43
Ti 334.941	100.437	ppb	0.4296	0.4	30849.4
Tl 190.794	39.0961	ppb	1.1794	3.0	26.6059
V 292.401	101.537	ppb	0.2864	0.3	2940.48
Zn 206.200	104.794	ppb	1.0408	1.0	379.156

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89896-c-23-a (Samp)      5/7/2013, 11:09:31 PM      Rack 2, Tube 17  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1665u	-0.3988u	-0.2616u
Al 308.215	0.8980	3.8806	1.6068
As 188.980	2.6921	-4.6071u	0.9748
B 249.678	0.9295	1.5211	0.6736
Ba 389.178	-0.9083u	-1.1189u	-0.0172u
Be 313.042	-0.0010u	0.0019	-0.0003u
Ca 370.602	62.02	65.75	59.57
Cd 226.502	-0.0717u	0.0392	0.1140
Co 228.615	0.4714	0.5769	-0.0395u
Cr 267.716	-0.0906u	-0.0363u	0.1102
Cu 324.754	0.4036	0.9475	0.3540
Fe 271.441	10.7647	16.5067	12.7914
K 766.491	-0.1595u	0.7579	-0.2637u
Mg 279.078	2.0519	6.3222	2.6947
Mn 257.610	-0.0331u	-0.0182u	-0.0363u
Mo 202.032	0.0606	-0.0202u	0.0652
Na 330.237	64.8645	104.351	-124.898u
Ni 231.604	-0.0066u	-0.3735u	-0.6586u
Pb 220.353	1.4311	-0.0519u	2.3308
Sb 206.834	-1.8201u	5.2756	2.5718
Se 196.026	1.4420	-1.9045u	-0.6736u
Sn 189.925	-1.8307u	-1.2937u	-0.4146u
Sr 216.596	-0.1719u	-0.0309u	-0.4119u
Ti 334.941	0.0993	0.0656	0.0645
Tl 190.794	-4.4868u	-3.9836u	-0.2114u
V 292.401	0.1329	0.0283	-0.1017u
Zn 206.200	2.5218	1.2843	0.7690

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2756	ppb	0.1168	42.4	-43.2871
Al 308.215	2.1285	ppb	1.5582	73.2	82.1631
As 188.980	-0.3134	ppb	3.8163	1217.7	-6.8773
B 249.678	1.0414	ppb	0.4347	41.7	161.183
Ba 389.178	-0.6815	ppb	0.5849	85.8	-10.2653
Be 313.042	0.0002	ppb	0.0015	781.5	-376.608
Ca 370.602	62.44	ppb	3.113	5.0	207.2
Cd 226.502	0.0272	ppb	0.0934	344.1	38.4475
Co 228.615	0.3363	ppb	0.3297	98.0	12.0577
Cr 267.716	-0.0056	ppb	0.1039	1868.8	17.1877
Cu 324.754	0.5683	ppb	0.3293	57.9	289.968
Fe 271.441	13.3543	ppb	2.9121	21.8	132.712
K 766.491	0.1116	ppb	0.5622	503.8	374.877
Mg 279.078	3.6896	ppb	2.3024	62.4	47.7649
Mn 257.610	-0.0292	ppb	0.0097	33.1	66.1113
Mo 202.032	0.0352	ppb	0.0480	136.4	17.1661
Na 330.237	14.7723	ppb	122.559	829.7	69.7486
Ni 231.604	-0.3462	ppb	0.3269	94.4	-6.9166
Pb 220.353	1.2367	ppb	1.2032	97.3	34.2125
Sb 206.834	2.0091	ppb	3.5812	178.2	6.1117
Se 196.026	-0.3787	ppb	1.6926	446.9	11.5532
Sn 189.925	-1.1797	ppb	0.7149	60.6	-13.6811
Sr 216.596	-0.2049	ppb	0.1926	94.0	17.6787
Ti 334.941	0.0765	ppb	0.0198	25.9	-18.2158
Tl 190.794	-2.8939	ppb	2.3367	80.7	-18.9009
V 292.401	0.0198	ppb	0.1175	592.3	-8.0155
Zn 206.200	1.5250	ppb	0.9009	59.1	31.5777



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680-89896-c-23-aSD^5 (Samp) 5/7/2013, 11:14:56 PM Rack 2, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1286u	-0.2675u	-0.2809u
Al 308.215	0.4657	-0.9636u	0.8892
As 188.980	1.8778	1.9954	8.4402
B 249.678	-1.6447u	-1.8617u	-1.1506u
Ba 389.178	-0.4627u	-0.6887u	-1.0246u
Be 313.042	0.0008	-0.0151u	-0.0067u
Ca 370.602	9.185	4.231	9.569
Cd 226.502	0.0121	-0.1662u	-0.0311u
Co 228.615	0.4616	0.4293	0.8944
Cr 267.716	-0.1170u	-0.3166u	-0.1004u
Cu 324.754	-0.1253u	0.1761	0.0890
Fe 271.441	1.2488	3.5587	0.1455
K 766.491	-1.9887u	-0.9143u	-0.8497u
Mg 279.078	-1.0745u	3.2894	1.0567
Mn 257.610	0.0269	0.0141	0.0581
Mo 202.032	-0.4322u	-0.6319u	0.6925
Na 330.237	3.7711	39.6719	-221.101u
Ni 231.604	1.0985	-1.1776u	0.1895
Pb 220.353	1.9990	-0.1313u	1.2069
Sb 206.834	5.1232	-0.8197u	0.1220
Se 196.026	-1.1535u	1.2829	4.0381
Sn 189.925	0.9449	-1.6366u	-1.0423u
Sr 216.596	-0.2976u	-0.2960u	-0.5505u
Ti 334.941	-0.0204u	-0.0351u	0.0088
Tl 190.794	1.8597	-0.0520u	-0.8896u
V 292.401	-0.2498u	0.0357	-0.5051u
Zn 206.200	1.0820	2.1116	0.2727

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2257	ppb	0.0843	37.4	-39.2350
Al 308.215	0.1304	ppb	0.9708	744.4	72.8840
As 188.980	4.1045	ppb	3.7553	91.5	-4.7608
B 249.678	-1.5523	ppb	0.3645	23.5	126.118
Ba 389.178	-0.7253	ppb	0.2827	39.0	-11.3082
Be 313.042	-0.0070	ppb	0.0080	113.6	-390.262
Ca 370.602	7.662	ppb	2.977	38.9	32.12
Cd 226.502	-0.0617	ppb	0.0930	150.6	34.7212
Co 228.615	0.5951	ppb	0.2597	43.6	15.5559
Cr 267.716	-0.1780	ppb	0.1203	67.6	8.0774
Cu 324.754	0.0466	ppb	0.1551	333.0	265.348
Fe 271.441	1.6510	ppb	1.7418	105.5	110.925
K 766.491	-1.2509	ppb	0.6397	51.1	322.368
Mg 279.078	1.0905	ppb	2.1821	200.1	41.7062
Mn 257.610	0.0330	ppb	0.0226	68.5	82.6781
Mo 202.032	-0.1238	ppb	0.7140	576.6	15.8671
Na 330.237	-59.2194	ppb	141.338	238.7	65.7241
Ni 231.604	0.0368	ppb	1.1457	3113.8	-5.7284
Pb 220.353	1.0249	ppb	1.0768	105.1	33.7722
Sb 206.834	1.4752	ppb	3.1942	216.5	5.4525
Se 196.026	1.3892	ppb	2.5974	187.0	12.5309
Sn 189.925	-0.5780	ppb	1.3519	233.9	-13.0706
Sr 216.596	-0.3814	ppb	0.1465	38.4	15.4054
Ti 334.941	-0.0156	ppb	0.0224	143.8	-46.5094
Tl 190.794	0.3061	ppb	1.4092	460.4	-15.3465
V 292.401	-0.2397	ppb	0.2706	112.9	-15.5890
Zn 206.200	1.1554	ppb	0.9216	79.8	30.9745

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**680-89896-c-23-aPDS (Samp) 5/7/2013, 11:20:20 PM Rack 2, Tube 19****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	47.5258	47.9183	48.1069
Al 308.215	1888.81	1882.51	1888.67
As 188.980	2075.08	2097.57	2086.79
B 249.678	970.971	973.333	981.866
Ba 389.178	2080.57	2075.53	2081.38
Be 313.042	51.4394	51.2993	51.4971
Ca 370.602	5047	5034	5046
Cd 226.502	51.3596	51.2045	51.2460
Co 228.615	525.999	520.200	524.583
Cr 267.716	206.984	207.137	207.954
Cu 324.754	255.989	256.868	258.210
Fe 271.441	993.502	990.298	998.242
K 766.491	4999.76	4973.19	4996.62
Mg 279.078	4985.32	4975.89	4986.94
Mn 257.610	536.510	534.835	536.273
Mo 202.032	514.738	512.387	514.848
Na 330.237	4915.66	4757.30	4884.19
Ni 231.604	511.845	509.286	511.783
Pb 220.353	489.291	493.573	497.337
Sb 206.834	482.270	481.663	485.759
Se 196.026	1943.12	1943.11	1962.08
Sn 189.925	1020.86	1010.69	1013.71
Sr 216.596	520.059	520.390	520.134
Ti 334.941	1005.28	1005.30	1009.64
Tl 190.794	2066.55	2056.22	2051.78
V 292.401	496.175	495.277	497.397
Zn 206.200	509.774	511.458	510.906

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.8503	ppb	0.2964	0.6	3829.56
Al 308.215	1886.66	ppb	3.5961	0.2	8875.22
As 188.980	2086.48	ppb	11.2490	0.5	992.896
B 249.678	975.390	ppb	5.7313	0.6	13337.6
Ba 389.178	2079.16	ppb	3.1702	0.2	48330.2
Be 313.042	51.4119	ppb	0.1017	0.2	97156.2
Ca 370.602	5042	ppb	7.396	0.1	16330
Cd 226.502	51.2700	ppb	0.0803	0.2	2166.79
Co 228.615	523.594	ppb	3.0233	0.6	7093.78
Cr 267.716	207.358	ppb	0.5216	0.3	10971.2
Cu 324.754	257.022	ppb	1.1189	0.4	12398.9
Fe 271.441	994.014	ppb	3.9966	0.4	2055.56
K 766.491	4989.86	ppb	14.5191	0.3	192678
Mg 279.078	4982.71	ppb	5.9670	0.1	11639.7
Mn 257.610	535.873	ppb	0.9065	0.2	143382
Mo 202.032	513.991	ppb	1.3898	0.3	4217.60
Na 330.237	4852.38	ppb	83.8365	1.7	320.920
Ni 231.604	510.971	ppb	1.4598	0.3	1579.75
Pb 220.353	493.400	ppb	4.0254	0.8	1055.95
Sb 206.834	483.230	ppb	2.2104	0.5	594.726
Se 196.026	1949.44	ppb	10.9465	0.6	1090.16
Sn 189.925	1015.09	ppb	5.2272	0.5	1017.64
Sr 216.596	520.194	ppb	0.1737	0.0	6679.25
Ti 334.941	1006.74	ppb	2.5114	0.2	309373
Tl 190.794	2058.18	ppb	7.5753	0.4	2269.46
V 292.401	496.283	ppb	1.0642	0.2	14429.5
Zn 206.200	510.713	ppb	0.8581	0.2	831.150

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680-89880-e-2-a (Samp) 5/7/2013, 11:25:45 PM Rack 2, Tube 20

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0478u	-0.0805u	0.1083
Al 308.215	136.896	133.425	134.936
As 188.980	-1.7106u	-4.7953u	-0.4782u
B 249.678	328.548	325.874	327.035
Ba 389.178	15.6413	15.4223	15.1601
Be 313.042	0.0057u	0.0008u	-0.0005u
Ca 370.602	7950	7874	7941
Cd 226.502	0.3564	0.3149	0.3678
Co 228.615	32.4432	32.3240	33.1079
Cr 267.716	5.3541	5.3456	5.4032
Cu 324.754	8.9874	9.4198	9.4575
Fe 271.441	1042.15	1026.33	1036.51
K 766.491	38777.7	38220.3	38593.5
Mg 279.078	76908.7	76330.1	76737.3
Mn 257.610	71.8924	71.1514	71.6290
Mo 202.032	5.7982	5.6675	5.1995
Na 330.237	324507x	324154x	325492x
Ni 231.604	15.7683	16.2949	16.9089
Pb 220.353	10.8838	11.3872	13.6131
Sb 206.834	128.615	131.291	130.311
Se 196.026	8.3705	9.8965	11.7556
Sn 189.925	-1.0441u	1.5170	0.7593
Sr 216.596	29.8494	29.8299	29.5804
Ti 334.941	2.5540	2.5765	2.5657
Tl 190.794	-0.0495u	0.7017	-3.1246u
V 292.401	2.3287	2.2387	2.0493
Zn 206.200	310.671	309.510	307.220

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0067b	ppb	0.1009	1510.6	-23.9098
Al 308.215	135.086b	ppb	1.7402	1.3	699.690
As 188.980	-2.3280b	ppb	2.2238	95.5	-7.8000
B 249.678	327.152b	ppb	1.3409	0.4	4570.47
Ba 389.178	15.4079b	ppb	0.2409	1.6	565.838
Be 313.042	0.0020b	ppb	0.0032	164.1	-414.229
Ca 370.602	7921b	ppb	41.64	0.5	25377
Cd 226.502	0.3464b	ppb	0.0279	8.0	54.5424
Co 228.615	32.6250b	ppb	0.4224	1.3	448.327
Cr 267.716	5.3676b	ppb	0.0311	0.6	308.008
Cu 324.754	9.2882b	ppb	0.2612	2.8	701.796
Fe 271.441	1034.99b	ppb	8.0154	0.8	2044.10
K 766.491	38530.5b	ppb	284.021	0.7	1485323
Mg 279.078	76658.7b	ppb	297.238	0.4	178664
Mn 257.610	71.5576b	ppb	0.3757	0.5	19927.1
Mo 202.032	5.5551b	ppb	0.3148	5.7	62.2282
Na 330.237	324718xb	ppb	693.407	0.2	17776.0
Ni 231.604	16.3241b	ppb	0.5709	3.5	44.8376
Pb 220.353	11.9614b	ppb	1.4524	12.1	56.5092
Sb 206.834	130.072b	ppb	1.3536	1.0	164.204
Se 196.026	10.0075b	ppb	1.6953	16.9	17.3251
Sn 189.925	0.4107b	ppb	1.3157	320.3	-11.9223
Sr 216.596	29.7532b	ppb	0.1500	0.5	403.990
Ti 334.941	2.5654b	ppb	0.0112	0.4	1098.47
Tl 190.794	-0.8241b	ppb	2.0274	246.0	-16.7641
V 292.401	2.2056b	ppb	0.1426	6.5	52.7760
Zn 206.200	309.133b	ppb	1.7558	0.6	507.163

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**680-89876-a-1-a (Samp)**                      **5/7/2013, 11:31:11 PM**                      **Rack 2, Tube 21**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1606u	-0.2649u	-0.3677u
Al 308.215	225.666	228.610	230.004
As 188.980	1.7281	4.7699	4.8170
B 249.678	16.5106	16.8784	16.1440
Ba 389.178	21.4404	21.1593	22.4004
Be 313.042	0.0209	0.0261	0.0102
Ca 370.602	4334	4339	4355
Cd 226.502	-0.0777	-0.0093	-0.0069
Co 228.615	-0.0100u	0.5222	0.4205
Cr 267.716	0.5053	0.2819	0.5164
Cu 324.754	1.9786	2.3554	2.2543
Fe 271.441	1181.38	1183.33	1185.52
K 766.491	1927.50	1934.24	1938.95
Mg 279.078	2266.81	2274.50	2275.47
Mn 257.610	71.0400	70.9746	71.2458
Mo 202.032	0.3245	-0.0075u	0.2198
Na 330.237	4978.46	5131.93	5054.94
Ni 231.604	0.8012	0.9868	-0.0627u
Pb 220.353	2.0938	0.8940	1.2213
Sb 206.834	3.0721	4.6788	3.3785
Se 196.026	2.7835	-0.3681u	-4.2542u
Sn 189.925	-1.7053u	0.5512	0.4823
Sr 216.596	33.4848	33.5948	33.4634
Ti 334.941	3.3028	3.2706	3.2561
Tl 190.794	-2.3432u	0.1719	-3.2743u
V 292.401	1.2917	1.1032	1.1202
Zn 206.200	4.6848	3.0047	3.1179

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2644	ppb	0.1036	39.2	-43.7190
Al 308.215	228.093	ppb	2.2150	1.0	1130.67
As 188.980	3.7717	ppb	1.7699	46.9	-4.9010
B 249.678	16.5110	ppb	0.3672	2.2	368.836
Ba 389.178	21.6667	ppb	0.6508	3.0	516.567
Be 313.042	0.0191	ppb	0.0081	42.5	-340.142
Ca 370.602	4343	ppb	10.71	0.2	13867
Cd 226.502	-0.0313	ppb	0.0402	128.3	40.3729
Co 228.615	0.3109	ppb	0.2825	90.9	11.7628
Cr 267.716	0.4345	ppb	0.1323	30.4	41.1751
Cu 324.754	2.1961	ppb	0.1950	8.9	367.088
Fe 271.441	1183.41	ppb	2.0736	0.2	2315.50
K 766.491	1933.56	ppb	5.7547	0.3	74889.3
Mg 279.078	2272.26	ppb	4.7441	0.2	5332.78
Mn 257.610	71.0868	ppb	0.1415	0.2	19103.0
Mo 202.032	0.1790	ppb	0.1697	94.8	18.2728
Na 330.237	5055.11	ppb	76.7384	1.5	344.170
Ni 231.604	0.5751	ppb	0.5601	97.4	-4.0289
Pb 220.353	1.4030	ppb	0.6202	44.2	34.5802
Sb 206.834	3.7098	ppb	0.8530	23.0	8.2472
Se 196.026	-0.6129	ppb	3.5252	575.1	11.4510
Sn 189.925	-0.2239	ppb	1.2834	573.2	-12.7068
Sr 216.596	33.5143	ppb	0.0705	0.2	452.592
Ti 334.941	3.2765	ppb	0.0239	0.7	976.155
Tl 190.794	-1.8152	ppb	1.7827	98.2	-17.8848
V 292.401	1.1717	ppb	0.1042	8.9	25.7166
Zn 206.200	3.6025	ppb	0.9390	26.1	5.0946

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680-89876-a-2-a (Samp)

5/7/2013, 11:36:37 PM

Rack 2, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4089u	-0.0499u	0.1781
Al 308.215	404.362	407.633	401.350
As 188.980	-1.4584u	3.7312	5.5349
B 249.678	8.6232	9.0805	7.5014
Ba 389.178	14.3906	13.7788	13.3757
Be 313.042	0.0414	0.0347	0.0429
Ca 370.602	489.5	490.5	484.8
Cd 226.502	-0.0317u	0.0535	-0.1012u
Co 228.615	0.5052	0.4797	1.1652
Cr 267.716	0.1674	0.2156	0.4823
Cu 324.754	1.1235	1.0219	0.1127
Fe 271.441	238.639	244.051	237.710
K 766.491	276.948	279.640	276.067
Mg 279.078	367.257	371.745	363.027
Mn 257.610	17.7878	17.9980	17.7468
Mo 202.032	-0.0979u	0.2899	0.2149
Na 330.237	1511.07	1609.07	1617.63
Ni 231.604	1.3550	1.0290	1.5026
Pb 220.353	3.3544	2.9118	3.9959
Sb 206.834	4.8362	1.7567	2.1642
Se 196.026	-0.4479u	4.3149	-1.1633u
Sn 189.925	0.7937	-0.3597u	-1.1440u
Sr 216.596	5.5109	5.3850	5.0160
Ti 334.941	1.9583	2.0119	2.0354
Tl 190.794	-3.9348u	-1.7086u	1.4411
V 292.401	0.7433	0.6373	0.8892
Zn 206.200	11.9571	11.7668	11.3141

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0936	ppb	0.2959	316.1	-28.7386
Al 308.215	404.449	ppb	3.1424	0.8	1949.02
As 188.980	2.6026	ppb	3.6307	139.5	-5.4792
B 249.678	8.4017	ppb	0.8125	9.7	260.425
Ba 389.178	13.8484	ppb	0.5110	3.7	328.592
Be 313.042	0.0397	ppb	0.0044	11.0	-301.748
Ca 370.602	488.2	ppb	3.052	0.6	1558
Cd 226.502	-0.0265	ppb	0.0775	292.9	37.0635
Co 228.615	0.7167	ppb	0.3886	54.2	17.2344
Cr 267.716	0.2884	ppb	0.1696	58.8	32.8948
Cu 324.754	0.7527	ppb	0.5566	73.9	298.732
Fe 271.441	240.133	ppb	3.4241	1.4	555.851
K 766.491	277.552	ppb	1.8614	0.7	11067.3
Mg 279.078	367.343	ppb	4.3593	1.2	894.727
Mn 257.610	17.8442	ppb	0.1348	0.8	4848.43
Mo 202.032	0.1357	ppb	0.2057	151.6	17.9730
Na 330.237	1579.26	ppb	59.2091	3.7	154.894
Ni 231.604	1.2955	ppb	0.2424	18.7	-1.8165
Pb 220.353	3.4207	ppb	0.5451	15.9	38.7653
Sb 206.834	2.9190	ppb	1.6727	57.3	7.2399
Se 196.026	0.9012	ppb	2.9779	330.4	12.2675
Sn 189.925	-0.2367	ppb	0.9747	411.8	-12.7233
Sr 216.596	5.3040	ppb	0.2572	4.8	88.6832
Ti 334.941	2.0018	ppb	0.0395	2.0	575.201
Tl 190.794	-1.4007	ppb	2.7012	192.8	-17.2842
V 292.401	0.7566	ppb	0.1265	16.7	13.5022
Zn 206.200	11.6794	ppb	0.3303	2.8	357.1567

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89876-a-3-a (Samp)

5/7/2013, 11:42:03 PM

Rack 2, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4993u	-0.2578u	-0.1980u
Al 308.215	409.080	408.929	407.460
As 188.980	1.4805	6.2658	-3.9536u
B 249.678	5.8953	6.7358	6.6174
Ba 389.178	12.5987	12.7432	12.1997
Be 313.042	0.0403	0.0386	0.0386
Ca 370.602	420.1	421.4	422.9
Cd 226.502	0.0456	-0.0773u	0.0274
Co 228.615	0.7678	-0.1075u	0.5408
Cr 267.716	0.3229	0.3038	0.1070
Cu 324.754	0.7656	0.9525	-0.1098u
Fe 271.441	255.933	263.912	266.628
K 766.491	261.814	263.469	264.121
Mg 279.078	354.496	360.171	352.788
Mn 257.610	18.9906	19.0895	19.0852
Mo 202.032	0.2944	-0.3669u	0.1993
Na 330.237	1566.94	1478.26	1353.17
Ni 231.604	0.3485	0.5372	-0.1749u
Pb 220.353	1.1366	2.1322	2.3333
Sb 206.834	2.9682	2.2990	-0.6535u
Se 196.026	-0.4698u	-4.3308u	3.8621
Sn 189.925	0.3356	-1.8619u	0.9695
Sr 216.596	5.2288	5.6088	5.0525
Ti 334.941	2.2503	2.0886	2.0796
Tl 190.794	-3.1378u	-2.2604u	-0.6357u
V 292.401	0.6839	0.9020	0.7774
Zn 206.200	3.7327	2.9451	2.5429

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3184	ppb	0.1595	50.1	-46.9126
Al 308.215	408.490	ppb	0.8951	0.2	1967.75
As 188.980	1.2642	ppb	5.1131	404.4	-6.1210
B 249.678	6.4162	ppb	0.4549	7.1	233.541
Ba 389.178	12.5139	ppb	0.2815	2.2	297.588
Be 313.042	0.0392	ppb	0.0010	2.5	-302.710
Ca 370.602	421.5	ppb	1.416	0.3	1341
Cd 226.502	-0.0014	ppb	0.0663	4611.7	38.1829
Co 228.615	0.4004	ppb	0.4542	113.5	12.9672
Cr 267.716	0.2446	ppb	0.1195	48.9	30.5862
Cu 324.754	0.5361	ppb	0.5672	105.8	288.516
Fe 271.441	262.158	ppb	5.5592	2.1	596.884
K 766.491	263.135	ppb	1.1890	0.5	10511.7
Mg 279.078	355.818	ppb	3.8652	1.1	867.855
Mn 257.610	19.0551	ppb	0.0559	0.3	5172.10
Mo 202.032	0.0423	ppb	0.3575	845.9	17.2081
Na 330.237	1466.12	ppb	107.402	7.3	148.783
Ni 231.604	0.2369	ppb	0.3689	155.7	-5.1008
Pb 220.353	1.8674	ppb	0.6408	34.3	35.5363
Sb 206.834	1.5379	ppb	1.9271	125.3	5.5369
Se 196.026	-0.3128	ppb	4.0987	1310.3	11.5965
Sn 189.925	-0.1856	ppb	1.4859	800.6	-12.6715
Sr 216.596	5.2967	ppb	0.2843	5.4	88.6229
Ti 334.941	2.1395	ppb	0.0961	4.5	617.463
Tl 190.794	-2.0113	ppb	1.2695	63.1	-17.9655
V 292.401	0.7878	ppb	0.1094	13.9	14.4446
Zn 206.200	3.0736	ppb	0.6952	19.7	34.1294

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89876-a-4-a (Samp) 5/7/2013, 11:47:29 PM Rack 2, Tube 24

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0940	-0.1409u	-0.1838u
Al 308.215	177.860	178.227	182.237
As 188.980	-1.9954u	1.8239	-3.2234u
B 249.678	4.2643	3.6734	4.1347
Ba 389.178	17.5671	16.7701	16.7473
Be 313.042	0.0408	0.0325	0.0327
Ca 370.602	1757	1769	1776
Cd 226.502	-0.1459	-0.0270	-0.0895
Co 228.615	2.8885	2.7124	2.8821
Cr 267.716	0.5272	0.8283	0.5075
Cu 324.754	1.4438	1.5011	1.1933
Fe 271.441	1757.51	1758.86	1775.35
K 766.491	462.159	464.747	467.860
Mg 279.078	910.234	919.790	910.486
Mn 257.610	119.741	120.177	120.642
Mo 202.032	0.3010	0.1803	0.7061
Na 330.237	2100.71	2111.19	1931.66
Ni 231.604	1.6012	3.7667	1.9022
Pb 220.353	1.3276	0.3031	2.2489
Sb 206.834	-2.7373u	1.7566	2.8536
Se 196.026	0.6846	1.8359	-2.7355u
Sn 189.925	-2.4638u	-0.8980u	-0.5918u
Sr 216.596	8.6660	9.3518	9.0760
Ti 334.941	0.6790	0.6656	0.6545
Tl 190.794	0.0897u	-3.2624u	-3.7351u
V 292.401	0.5572	0.5345	0.6265
Zn 206.200	5.3768	4.4563	5.6338

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0769	ppb	0.1496	194.5	-27.0756
Al 308.215	179.442	ppb	2.4278	1.4	904.965
As 188.980	-1.1317	ppb	2.6322	232.6	-7.2720
B 249.678	4.0241	ppb	0.3106	7.7	199.171
Ba 389.178	17.0282	ppb	0.4669	2.7	406.060
Be 313.042	0.0354	ppb	0.0048	13.4	-309.668
Ca 370.602	1767	ppb	9.316	0.5	5545
Cd 226.502	-0.0875	ppb	0.0595	68.0	40.1964
Co 228.615	2.8277	ppb	0.0999	3.5	45.6611
Cr 267.716	0.6210	ppb	0.1798	29.0	51.3502
Cu 324.754	1.3794	ppb	0.1637	11.9	328.731
Fe 271.441	1763.91	ppb	9.9307	0.6	3398.86
K 766.491	464.922	ppb	2.8544	0.6	18288.5
Mg 279.078	913.503	ppb	5.4459	0.6	2165.93
Mn 257.610	120.186	ppb	0.4507	0.4	32218.0
Mo 202.032	0.3958	ppb	0.2754	69.6	20.0141
Na 330.237	2047.85	ppb	100.760	4.9	179.952
Ni 231.604	2.4233	ppb	1.1730	48.4	1.7204
Pb 220.353	1.2932	ppb	0.9733	75.3	34.3643
Sb 206.834	0.6243	ppb	2.9624	474.5	4.4513
Se 196.026	-0.0717	ppb	2.3777	3316.5	11.7677
Sn 189.925	-1.3179	ppb	1.0041	76.2	-13.8197
Sr 216.596	9.0313	ppb	0.3451	3.8	137.689
Ti 334.941	0.6663	ppb	0.0123	1.8	167.617
Tl 190.794	-2.3026	ppb	2.0852	90.6	-18.5378
V 292.401	0.5727	ppb	0.0479	8.4	8.0483
Zn 206.200	5.1556	ppb	0.6191	12.0	37.6912

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Verif (CCV) 5/7/2013, 11:52:55 PM Rack 2, Tube 25  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	499.974	489.750	487.138
Al 308.215	4823.91	4807.12	4872.11
As 188.980	495.042	489.609	510.643
B 249.678	502.708	497.227	503.930
Ba 389.178	5117.70	5086.13	5127.11
Be 313.042	512.100	507.759	514.659
Ca 370.602	5000	4976	5027
Cd 226.502	512.971	509.817	515.300
Co 228.615	522.759	518.929	523.124
Cr 267.716	5166.28	5130.75	5175.48
Cu 324.754	5097.16	5021.17	5082.69
Fe 271.441	4948.17	4925.03	4955.54
K 766.491	10093.6	10050.9	10093.9
Mg 279.078	4962.49	4931.03	4985.56
Mn 257.610	5279.10	5239.45	5276.96
Mo 202.032	492.572	493.376	498.839
Na 330.237	7107.67	7268.52	7237.69
Ni 231.604	2589.18	2567.33	2588.50
Pb 220.353	496.172	490.279	494.941
Sb 206.834	961.970	958.507	978.473
Se 196.026	4904.67	4872.18	4913.75
Sn 189.925	5000.91	5005.53	5075.42
Sr 216.596	2516.09	2502.95	2527.47
Ti 334.941	496.625	493.240	496.843
Tl 190.794	5016.57	4965.05	5009.50
V 292.401	4951.88	4906.11	4954.64
Zn 206.200	2606.16	2594.43	2604.76

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	492.288	ppb	6.7838	1.4	39729.4	98.45753
Al 308.215	4834.38	ppb	33.7360	0.7	22487.1	96.68758
As 188.980	498.431	ppb	10.9187	2.2	231.978	99.68623
B 249.678	501.288	ppb	3.5700	0.7	6920.18	20.05153Q
Ba 389.178	5110.31	ppb	21.4644	0.4	118770	102.20630
Be 313.042	511.506	ppb	3.4880	0.7	970734	102.30124
Ca 370.602	5001	ppb	25.38	0.5	15954	100.02319
Cd 226.502	512.696	ppb	2.7516	0.5	21311.9	102.53920
Co 228.615	521.604	ppb	2.3238	0.4	7067.43	104.32084
Cr 267.716	5157.50	ppb	23.6221	0.5	272451	103.15009
Cu 324.754	5067.01	ppb	40.3490	0.8	239298	101.34019
Fe 271.441	4942.91	ppb	15.9199	0.3	9467.74	98.85823
K 766.491	10079.5	ppb	24.7258	0.2	388831	100.79489
Mg 279.078	4959.69	ppb	27.3735	0.6	11502.2	99.19386
Mn 257.610	5265.17	ppb	22.3008	0.4	1407700	105.30335
Mo 202.032	494.929	ppb	3.4096	0.7	4052.09	98.98583
Na 330.237	7204.63	ppb	85.3721	1.2	435.389	96.06167
Ni 231.604	2581.67	ppb	12.4239	0.5	8005.35	103.26688
Pb 220.353	493.797	ppb	3.1085	0.6	1058.50	98.75948
Sb 206.834	966.317	ppb	10.6689	1.1	1256.90	96.63167
Se 196.026	4896.86	ppb	21.8539	0.4	2721.72	97.93728
Sn 189.925	5027.28	ppb	41.7480	0.8	5089.24	100.54568
Sr 216.596	2515.50	ppb	12.2750	0.5	32303.5	100.62016
Ti 334.941	495.570	ppb	2.0203	0.4	152281	99.11391
Tl 190.794	4997.04	ppb	27.9267	0.6	5527.81	99.94082
V 292.401	4937.54	ppb	27.2579	0.6	144252	98.75090
Zn 206.200	2601.78	ppb	6.4066	0.2	4224.82	104.07136



E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Blank (CCB) 5/7/2013, 11:58:20 PM Rack 2, Tube 26

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0612u	0.1073	-0.2164u
Al 308.215	-1.0579u	-1.1360u	-2.6164u
As 188.980	0.5708	-2.9530u	0.6626
B 249.678	7.2880	6.1584	5.8467
Ba 389.178	-0.6979u	-0.5365u	0.8777
Be 313.042	0.0012	-0.0079u	0.0007
Ca 370.602	-3.471u	-1.488u	-3.444u
Cd 226.502	-0.0964u	-0.0750u	0.0139
Co 228.615	0.1223	0.1878	0.3720
Cr 267.716	-0.3079u	-0.1893u	-0.3127u
Cu 324.754	0.1848	-0.3718u	-0.0684u
Fe 271.441	-1.3245u	7.4118	2.9114
K 766.491	-1.8393u	-2.3113u	-1.7836u
Mg 279.078	0.7846	0.1395	-1.0843u
Mn 257.610	-0.1097u	-0.0837u	-0.0276u
Mo 202.032	0.0539	-0.0629u	0.0773
Na 330.237	-2.8407u	-99.8975u	39.2629
Ni 231.604	0.2321	0.6479	0.4167
Pb 220.353	2.9735	0.6784	0.6440
Sb 206.834	5.7086	5.5339	-0.0442u
Se 196.026	-0.3503u	0.5482	2.2826
Sn 189.925	-1.6308u	-0.3562u	1.9454
Sr 216.596	-0.6473u	0.0937	-0.4938u
Ti 334.941	0.0069	-0.0011u	0.0264
Tl 190.794	0.5244	-0.3697u	1.6256
V 292.401	-0.2288u	0.0098	-0.2628u
Zn 206.200	0.9145	0.2507	1.6006

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0568	ppb	0.1619	285.1	-25.5845	-0.05679
Al 308.215	-1.6034	ppb	0.8781	54.8	64.8741	-1.60342
As 188.980	-0.5732	ppb	2.0615	359.7	-7.0021	-0.57318
B 249.678	6.4310	ppb	0.7583	11.8	234.092	6.43103
Ba 389.178	-0.1189	ppb	0.8668	729.0	2.7792	-0.11891
Be 313.042	-0.0020	ppb	0.0051	253.4	-380.836	-0.00201
Ca 370.602	-2.801	ppb	1.137	40.6	-1.465	-2.80079
Cd 226.502	-0.0525	ppb	0.0585	111.5	35.1032	-0.05248
Co 228.615	0.2274	ppb	0.1294	56.9	10.5733	0.22738
Cr 267.716	-0.2699	ppb	0.0699	25.9	3.2195	-0.26992
Cu 324.754	-0.0851	ppb	0.2787	327.4	259.143	-0.08511
Fe 271.441	2.9996	ppb	4.3688	145.6	113.378	2.99957
K 766.491	-1.9781	ppb	0.2899	14.7	294.343	-1.97806
Mg 279.078	-0.0534	ppb	0.9493	1778.9	39.0429	-0.05336
Mn 257.610	-0.0737	ppb	0.0420	57.0	54.1471	-0.07367
Mo 202.032	0.0228	ppb	0.0751	329.8	17.0654	0.02276
Na 330.237	-21.1584	ppb	71.3657	337.3	67.8013	-21.15842
Ni 231.604	0.4323	ppb	0.2083	48.2	-4.5012	0.43227
Pb 220.353	1.4320	ppb	1.3351	93.2	34.6181	1.43197
Sb 206.834	3.7328	ppb	3.2721	87.7	8.2328	3.73275
Se 196.026	0.8268	ppb	1.3384	161.9	12.2199	0.82684
Sn 189.925	-0.0139	ppb	1.8125	13077.1	-12.4981	-0.01386
Sr 216.596	-0.3491	ppb	0.3911	112.0	15.7893	-0.34912
Ti 334.941	0.0107	ppb	0.0141	131.6	-38.4270	0.01075
Tl 190.794	0.5934	ppb	0.9994	168.4	-15.0275	0.59342
V 292.401	-0.1606	ppb	0.1485	92.5	-13.3338	-0.16057
Zn 206.200	0.9219	ppb	0.6750	73.2	30.5940	0.92191

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89876-a-5-a (Samp) 5/8/2013, 12:03:45 AM Rack 2, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2711u	-0.7497u	-0.4679u
Al 308.215	349.130	346.804	347.368
As 188.980	2.9388	-1.0031u	7.9803
B 249.678	7.0296	7.1482	7.0795
Ba 389.178	19.6362	20.5171	19.7561
Be 313.042	0.0586	0.0419	0.0481
Ca 370.602	6443	6458	6514
Cd 226.502	-0.1632	0.0587	-0.0402
Co 228.615	10.0178	9.9396	10.7268
Cr 267.716	0.3671	0.4024	0.2574
Cu 324.754	0.9443	0.8869	1.4308
Fe 271.441	2757.98	2765.19	2770.46
K 766.491	1019.67	1015.01	1011.12
Mg 279.078	3091.95	3094.71	3110.77
Mn 257.610	622.616	623.762	626.110
Mo 202.032	-0.2357u	0.2999	-0.3672u
Na 330.237	2545.31	2464.74	2683.52
Ni 231.604	6.5416	7.2574	6.6261
Pb 220.353	3.0897	-0.0592	3.3674
Sb 206.834	-0.9535u	1.9043	5.3016
Se 196.026	-0.8400u	-5.2785u	9.9191
Sn 189.925	0.6112	2.4490	1.2344
Sr 216.596	21.0443	20.8714	20.8262
Ti 334.941	0.7299	0.6672	0.7212
Tl 190.794	1.9891	-0.4176u	0.7849u
V 292.401	0.1416	0.6881	-0.1967u
Zn 206.200	10.2055	11.2016	11.9396

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4963	ppb	0.2406	48.5	-59.1526
Al 308.215	347.767	ppb	1.2131	0.3	1685.99
As 188.980	3.3053	ppb	4.5029	136.2	-5.1228
B 249.678	7.0857	ppb	0.0595	0.8	239.226
Ba 389.178	19.9698	ppb	0.4778	2.4	481.556
Be 313.042	0.0495	ppb	0.0084	17.1	-281.377
Ca 370.602	6472	ppb	37.41	0.6	20592
Cd 226.502	-0.0482	ppb	0.1112	230.5	45.5891
Co 228.615	10.2281	ppb	0.4337	4.2	145.649
Cr 267.716	0.3423	ppb	0.0756	22.1	39.2983
Cu 324.754	1.0873	ppb	0.2989	27.5	315.225
Fe 271.441	2764.55	ppb	6.2644	0.2	5266.83
K 766.491	1015.26	ppb	4.2805	0.4	39498.5
Mg 279.078	3099.15	ppb	10.1625	0.3	7250.02
Mn 257.610	624.163	ppb	1.7813	0.3	166972
Mo 202.032	-0.1010	ppb	0.3533	349.8	15.8967
Na 330.237	2564.52	ppb	110.651	4.3	207.707
Ni 231.604	6.8084	ppb	0.3912	5.7	15.3520
Pb 220.353	2.1326	ppb	1.9033	89.2	36.2470
Sb 206.834	2.0841	ppb	3.1314	150.3	6.2852
Se 196.026	1.2669	ppb	7.8148	616.9	12.6539
Sn 189.925	1.4315	ppb	0.9347	65.3	-11.0269
Sr 216.596	20.9139	ppb	0.1151	0.6	291.632
Ti 334.941	0.7061	ppb	0.0339	4.8	190.746
Tl 190.794	0.7855	ppb	1.2033	153.2	-15.9814
V 292.401	0.2110	ppb	0.4465	211.6	-2.4416
Zn 206.200	11.1156	ppb	0.8792	7.8	375214

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89876-a-6-a (Samp) 5/8/2013, 12:09:10 AM Rack 2, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2806	-0.1789u	-0.1438u
Al 308.215	580.162	586.797	580.633
As 188.980	1.1688	4.3312	4.9802
B 249.678	7.9116	8.0892	7.6944
Ba 389.178	17.6915	17.4795	18.1934
Be 313.042	0.0643	0.0674	0.0579
Ca 370.602	1824	1839	1825
Cd 226.502	0.0083	-0.0728	-0.1751u
Co 228.615	1.7592	1.9083	1.8213
Cr 267.716	0.6807	0.7243	0.6365
Cu 324.754	1.0406	1.0432	1.7130
Fe 271.441	1143.94	1146.72	1142.88
K 766.491	535.361	534.454	530.763
Mg 279.078	867.558	869.634	865.870
Mn 257.610	117.482	118.383	117.437
Mo 202.032	0.4695	-0.0847u	-0.3660u
Na 330.237	1793.00	1722.87	1712.06
Ni 231.604	1.0994	1.1920	0.9360
Pb 220.353	2.0927	5.3368	3.3731
Sb 206.834	2.6069	3.7158	3.8410
Se 196.026	3.8573	-0.3713u	-4.7712u
Sn 189.925	0.5724	2.1402	-1.8302u
Sr 216.596	11.1242	11.5624	11.0771
Ti 334.941	3.7264	3.6151	3.8150
Tl 190.794	-0.8976u	1.1091	0.6282
V 292.401	1.1229	1.0635	1.0797
Zn 206.200	3.7560	5.0984	5.1753

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0140	ppb	0.2558	1823.3	-22.1241
Al 308.215	582.531	ppb	3.7024	0.6	2775.31
As 188.980	3.4934	ppb	2.0392	58.4	-5.0506
B 249.678	7.8984	ppb	0.1977	2.5	252.402
Ba 389.178	17.7881	ppb	0.3666	2.1	422.722
Be 313.042	0.0632	ppb	0.0049	7.7	-256.595
Ca 370.602	1829	ppb	8.079	0.4	5795
Cd 226.502	-0.0798	ppb	0.0919	115.1	38.2158
Co 228.615	1.8296	ppb	0.0749	4.1	32.3046
Cr 267.716	0.6805	ppb	0.0439	6.5	54.3218
Cu 324.754	1.2656	ppb	0.3875	30.6	323.173
Fe 271.441	1144.51	ppb	1.9798	0.2	2243.20
K 766.491	533.526	ppb	2.4354	0.5	20932.5
Mg 279.078	867.687	ppb	1.8854	0.2	2058.96
Mn 257.610	117.767	ppb	0.5334	0.5	31568.9
Mo 202.032	0.0063	ppb	0.4251	6799.6	16.8634
Na 330.237	1742.64	ppb	43.9446	2.5	163.513
Ni 231.604	1.0758	ppb	0.1296	12.0	-2.4760
Pb 220.353	3.6009	ppb	1.6340	45.4	39.1698
Sb 206.834	3.3879	ppb	0.6792	20.0	7.8534
Se 196.026	-0.4284	ppb	4.3145	1007.1	11.5656
Sn 189.925	0.2942	ppb	1.9998	679.8	-12.1838
Sr 216.596	11.2545	ppb	0.2676	2.4	165.953
Ti 334.941	3.7188	ppb	0.1002	2.7	1105.46
Tl 190.794	0.2799	ppb	1.0477	374.3	-15.6308
V 292.401	1.0887	ppb	0.0307	2.8	23.2981
Zn 206.200	4.6766	ppb	0.7982	17.1	58405

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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2761u	-0.4730u	-0.5693u
Al 308.215	621.332	619.987	619.315
As 188.980	-0.6450u	4.8619	-2.7963u
B 249.678	6.0713	6.1117	5.7818
Ba 389.178	17.4766	17.6891	16.9082
Be 313.042	0.0584	0.0582	0.0589
Ca 370.602	4664	4640	4649
Cd 226.502	-0.1176	-0.0228	0.0555
Co 228.615	7.1901	7.9996	7.4345
Cr 267.716	0.4139	0.3704	0.2389
Cu 324.754	1.1978	1.2378	0.7763
Fe 271.441	2050.70	2046.18	2053.23
K 766.491	669.462	671.338	671.172
Mg 279.078	2083.19	2084.82	2099.50
Mn 257.610	546.270	546.268	546.757
Mo 202.032	-0.3454u	0.2643	0.9245
Na 330.237	1994.80	2005.32	2054.76
Ni 231.604	6.0948	6.7297	7.9434
Pb 220.353	2.9304	1.1465	0.6369
Sb 206.834	2.4935	2.9842	4.3021
Se 196.026	5.7986	-0.8344u	1.5754
Sn 189.925	2.2646	-0.2272u	0.8563
Sr 216.596	17.0329	17.4255	17.4110
Ti 334.941	2.5422	2.2952	2.3874
Tl 190.794	-0.1443u	-2.6412u	1.0339
V 292.401	0.3249	0.2817	1.0410
Zn 206.200	11.8503	10.2770	12.1551

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4395	ppb	0.1494	34.0	-54.7284
Al 308.215	620.211	ppb	1.0273	0.2	2950.20
As 188.980	0.4735	ppb	3.9497	834.1	-6.4860
B 249.678	5.9883	ppb	0.1799	3.0	225.348
Ba 389.178	17.3580	ppb	0.4037	2.3	417.201
Be 313.042	0.0585	ppb	0.0003	0.6	-264.839
Ca 370.602	4651	ppb	11.87	0.3	14799
Cd 226.502	-0.0283	ppb	0.0867	306.1	43.7363
Co 228.615	7.5414	ppb	0.4152	5.5	109.406
Cr 267.716	0.3411	ppb	0.0911	26.7	38.6689
Cu 324.754	1.0706	ppb	0.2557	23.9	314.242
Fe 271.441	2050.04	ppb	3.5704	0.2	3933.44
K 766.491	670.657	ppb	1.0383	0.2	26217.5
Mg 279.078	2089.17	ppb	8.9830	0.4	4897.77
Mn 257.610	546.432	ppb	0.2820	0.1	146180
Mo 202.032	0.2811	ppb	0.6351	225.9	19.0605
Na 330.237	2018.29	ppb	32.0138	1.6	178.168
Ni 231.604	6.9226	ppb	0.9393	13.6	15.6891
Pb 220.353	1.5713	ppb	1.2043	76.6	35.0644
Sb 206.834	3.2600	ppb	0.9353	28.7	7.7110
Se 196.026	2.1798	ppb	3.3576	154.0	13.1327
Sn 189.925	0.9646	ppb	1.2494	129.5	-11.5020
Sr 216.596	17.2898	ppb	0.2226	1.3	244.344
Ti 334.941	2.4083	ppb	0.1248	5.2	708.803
Tl 190.794	-0.5838	ppb	1.8765	321.4	-17.3363
V 292.401	0.5492	ppb	0.4264	77.6	7.4181
Zn 206.200	11.4275	ppb	1.0079	8.8	37.9492

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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2614	-0.1994u	-0.5140u
Al 308.215	336.589	332.517	334.283
As 188.980	6.0781	-2.1232u	1.9142
B 249.678	5.2060	4.5041	5.7117
Ba 389.178	21.7824	21.1446	21.8401
Be 313.042	0.0201	0.0206	0.0232
Ca 370.602	4177	4124	4137
Cd 226.502	-0.0089	-0.0019	-0.2788u
Co 228.615	0.8837	0.6846	0.5404
Cr 267.716	0.5081	0.4875	0.3488
Cu 324.754	2.4735	2.7849	1.8164
Fe 271.441	1265.26	1262.85	1268.30
K 766.491	1894.49	1892.69	1890.68
Mg 279.078	2183.85	2167.69	2172.11
Mn 257.610	70.4484	69.9222	70.0884
Mo 202.032	-0.1035u	0.0579	0.1012
Na 330.237	4864.13	4791.15	4991.50
Ni 231.604	0.9499	0.5670	1.0257
Pb 220.353	2.4298	0.7130	4.0479
Sb 206.834	3.4866	1.1462	-0.6281u
Se 196.026	7.0660	-2.2058u	-1.6329u
Sn 189.925	-0.6317u	-1.7160u	-0.5753u
Sr 216.596	31.8065	32.8103	32.4810
Ti 334.941	5.4941	5.2903	5.2387
Tl 190.794	1.1096	-0.3959u	-3.6963u
V 292.401	1.5543	1.7461	1.3853
Zn 206.200	6.9983	6.3108	8.5561

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1507	ppb	0.3900	258.8	-34.4495
Al 308.215	334.463	ppb	2.0422	0.6	1624.25
As 188.980	1.9564	ppb	4.1008	209.6	-5.7727
B 249.678	5.1406	ppb	0.6065	11.8	214.942
Ba 389.178	21.5890	ppb	0.3860	1.8	514.623
Be 313.042	0.0213	ppb	0.0017	7.8	-335.998
Ca 370.602	4146	ppb	27.43	0.7	13228
Cd 226.502	-0.0965	ppb	0.1579	163.5	37.9766
Co 228.615	0.7029	ppb	0.1724	24.5	17.1147
Cr 267.716	0.4481	ppb	0.0866	19.3	41.9088
Cu 324.754	2.3583	ppb	0.4944	21.0	374.762
Fe 271.441	1265.47	ppb	2.7310	0.2	2468.66
K 766.491	1892.62	ppb	1.9081	0.1	73311.5
Mg 279.078	2174.55	ppb	8.3552	0.4	5105.09
Mn 257.610	70.1530	ppb	0.2689	0.4	18852.7
Mo 202.032	0.0185	ppb	0.1079	582.8	16.9557
Na 330.237	4882.26	ppb	101.396	2.1	334.664
Ni 231.604	0.8475	ppb	0.2459	29.0	-3.1816
Pb 220.353	2.3969	ppb	1.6677	69.6	36.6471
Sb 206.834	1.3349	ppb	2.0638	154.6	5.3156
Se 196.026	1.0758	ppb	5.1956	483.0	12.3853
Sn 189.925	-0.9743	ppb	0.6429	66.0	-13.4686
Sr 216.596	32.3659	ppb	0.5117	1.6	437.833
Ti 334.941	5.3410	ppb	0.1351	2.5	1610.17
Tl 190.794	-0.9942	ppb	2.4582	247.3	-16.9758
V 292.401	1.5619	ppb	0.1805	11.6	37.1568
Zn 206.200	7.2884	ppb	1.1504	15.8	317.1131

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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3656u	-0.5941u	-0.3298u
Al 308.215	775.124	778.192	768.903
As 188.980	1.8869	3.0361	-6.1274u
B 249.678	5.3307	5.4097	4.7063
Ba 389.178	18.0180	18.6492	17.5466
Be 313.042	0.0974	0.0969	0.1015
Ca 370.602	5059	5082	5033
Cd 226.502	-0.0707	-0.0411	-0.1342
Co 228.615	8.5566	8.6550	9.0111
Cr 267.716	0.4098	0.6974	0.3839
Cu 324.754	1.9077	0.9304	1.3032
Fe 271.441	2324.52	2333.75	2321.86
K 766.491	682.786	688.628	680.323
Mg 279.078	2254.40	2258.36	2250.73
Mn 257.610	566.915	568.888	565.047
Mo 202.032	-0.0290u	-0.2896u	0.1474
Na 330.237	2228.95	2259.26	2415.69
Ni 231.604	7.9273	7.7552	7.9439
Pb 220.353	0.5071	2.2348	1.5106
Sb 206.834	0.8510	-0.4868u	5.1480
Se 196.026	1.2004	-0.2467	-10.0207u
Sn 189.925	0.4297	1.2439	0.7387
Sr 216.596	20.6183	21.1028	21.4105
Ti 334.941	2.6572	2.8069	2.6986
Tl 190.794	0.4229u	1.2944	-0.2484u
V 292.401	0.4409	0.8156	0.6085
Zn 206.200	11.9464	11.1683	12.6498

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4298	ppb	0.1434	33.4	-54.0283
Al 308.215	774.073	ppb	4.7329	0.6	3664.10
As 188.980	-0.4015	ppb	4.9920	1243.4	-6.9047
B 249.678	5.1489	ppb	0.3853	7.5	213.626
Ba 389.178	18.0713	ppb	0.5533	3.1	434.596
Be 313.042	0.0986	ppb	0.0025	2.6	-188.504
Ca 370.602	5058	ppb	24.76	0.5	16086
Cd 226.502	-0.0820	ppb	0.0476	58.0	42.5355
Co 228.615	8.7409	ppb	0.2391	2.7	125.631
Cr 267.716	0.4970	ppb	0.1740	35.0	47.0864
Cu 324.754	1.3804	ppb	0.4932	35.7	328.923
Fe 271.441	2326.71	ppb	6.2431	0.3	4449.79
K 766.491	683.912	ppb	4.2653	0.6	26728.3
Mg 279.078	2254.50	ppb	3.8165	0.2	5282.65
Mn 257.610	566.950	ppb	1.9210	0.3	151668
Mo 202.032	-0.0571	ppb	0.2198	385.2	16.2801
Na 330.237	2301.30	ppb	100.214	4.4	193.490
Ni 231.604	7.8755	ppb	0.1045	1.3	18.6527
Pb 220.353	1.4175	ppb	0.8676	61.2	34.7536
Sb 206.834	1.8374	ppb	2.9440	160.2	5.9714
Se 196.026	-3.0223	ppb	6.1038	202.0	10.2628
Sn 189.925	0.8041	ppb	0.4110	51.1	-11.6644
Sr 216.596	21.0439	ppb	0.3994	1.9	292.839
Ti 334.941	2.7209	ppb	0.0773	2.8	805.716
Tl 190.794	0.4897	ppb	0.7736	158.0	-16.1922
V 292.401	0.6217	ppb	0.1877	30.2	9.6168
Zn 206.200	11.9215	ppb	0.7411	6.2	137.851

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680-89876-a-10-a (Samp) 5/8/2013, 12:31:14 AM Rack 2, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2066u	-0.0967u	0.0383
Al 308.215	315.584	315.721	315.584
As 188.980	-5.3364u	-9.0692u	6.5050
B 249.678	4.6353	5.2132	5.0233
Ba 389.178	20.1989	22.0436	21.4721
Be 313.042	0.0334	0.0324	0.0341
Ca 370.602	4118	4100	4108
Cd 226.502	-0.1526u	-0.1395u	0.0415
Co 228.615	0.9894	1.1678	1.5599
Cr 267.716	0.2551	0.4532	0.2062
Cu 324.754	2.0763	1.6749	2.4696
Fe 271.441	1341.28	1341.61	1339.87
K 766.491	1735.16	1727.36	1729.80
Mg 279.078	2113.80	2108.02	2109.72
Mn 257.610	121.426	121.797	121.550
Mo 202.032	0.4432	0.3221	0.2441
Na 330.237	4286.07	4370.16	4364.08
Ni 231.604	1.3306	1.4767	1.7026
Pb 220.353	2.7769	2.1615	3.6691
Sb 206.834	0.5000	0.4351	-1.2941u
Se 196.026	7.4674	8.9116	1.0159
Sn 189.925	-0.6826u	3.9591	-2.3630u
Sr 216.596	30.1082	29.0104	30.0209
Ti 334.941	3.8159	3.7388	3.8201
Tl 190.794	-0.5782u	0.7396	-0.3553u
V 292.401	1.4868	1.3582	0.9585
Zn 206.200	4.1260	5.3085	5.3643

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0884	ppb	0.1226	138.8	-29.0310
Al 308.215	315.630	ppb	0.0791	0.0	1536.89
As 188.980	-2.6335	ppb	8.1313	308.8	-7.9728
B 249.678	4.9573	ppb	0.2946	5.9	212.360
Ba 389.178	21.2382	ppb	0.9443	4.4	506.413
Be 313.042	0.0333	ppb	0.0009	2.6	-313.131
Ca 370.602	4109	ppb	8.980	0.2	13104
Cd 226.502	-0.0835	ppb	0.1085	129.8	38.7989
Co 228.615	1.2390	ppb	0.2918	23.6	24.2996
Cr 267.716	0.3048	ppb	0.1308	42.9	34.5907
Cu 324.754	2.0736	ppb	0.3974	19.2	361.361
Fe 271.441	1340.92	ppb	0.9227	0.1	2609.51
K 766.491	1730.77	ppb	3.9904	0.2	67073.9
Mg 279.078	2110.51	ppb	2.9710	0.1	4954.97
Mn 257.610	121.591	ppb	0.1888	0.2	32603.4
Mo 202.032	0.3365	ppb	0.1003	29.8	19.5513
Na 330.237	4340.10	ppb	46.8906	1.1	305.100
Ni 231.604	1.5033	ppb	0.1874	12.5	-1.1448
Pb 220.353	2.8692	ppb	0.7580	26.4	37.6429
Sb 206.834	-0.1197	ppb	1.0176	850.5	3.5164
Se 196.026	5.7983	ppb	4.2041	72.5	15.0120
Sn 189.925	0.3045	ppb	3.2746	1075.4	-12.1710
Sr 216.596	29.7132	ppb	0.6102	2.1	403.737
Ti 334.941	3.7916	ppb	0.0458	1.2	1133.75
Tl 190.794	-0.0646	ppb	0.7054	1091.4	-16.0314
V 292.401	1.2679	ppb	0.2755	21.7	28.4759
Zn 206.200	4.9329	ppb	0.6993	14.2	37.2819

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**680-89876-a-10-b ms (Samp) 5/8/2013, 12:36:40 AM Rack 2, Tube 33****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.1995	50.9378	50.5733
Al 308.215	5317.50	5296.64	5288.89
As 188.980	116.226	100.770	110.715
B 249.678	200.752	201.781	202.093
Ba 389.178	128.209	127.143	128.350
Be 313.042	54.4269	54.3128	54.3559
Ca 370.602	9329	9317	9310
Cd 226.502	53.1300	52.8196	52.6895
Co 228.615	55.6239	54.8275	55.1903
Cr 267.716	108.365	107.819	107.914
Cu 324.754	109.501	110.112	108.201
Fe 271.441	6491.59	6469.25	6480.54
K 766.491	6900.04	6868.27	6898.79
Mg 279.078	7269.75	7240.17	7233.39
Mn 257.610	680.516	678.412	679.512
Mo 202.032	101.763	102.209	102.154
Na 330.237	9635.16	9700.81	9612.74
Ni 231.604	105.032	106.906	107.504
Pb 220.353	54.4431	54.0020	54.1670
Sb 206.834	54.5700	51.6314	49.9324
Se 196.026	107.103	99.8266	100.940
Sn 189.925	201.344	202.786	202.626
Sr 216.596	135.258	134.042	135.105
Ti 334.941	106.696	106.266	106.219
Tl 190.794	37.2941	41.2123	40.2048
V 292.401	104.914	104.761	104.844
Zn 206.200	114.775	109.970	109.902

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.9036	ppb	0.3145	0.6	4093.29
Al 308.215	5301.01	ppb	14.7974	0.3	24679.3
As 188.980	109.237	ppb	7.8333	7.2	45.6008
B 249.678	201.542	ppb	0.7019	0.3	2864.21
Ba 389.178	127.901	ppb	0.6597	0.5	3006.06
Be 313.042	54.3652	ppb	0.0576	0.1	102847
Ca 370.602	9319	ppb	9.627	0.1	29457
Cd 226.502	52.8797	ppb	0.2263	0.4	2253.78
Co 228.615	55.2139	ppb	0.3987	0.7	752.880
Cr 267.716	108.032	ppb	0.2920	0.3	5728.39
Cu 324.754	109.271	ppb	0.9761	0.9	5422.20
Fe 271.441	6480.46	ppb	11.1692	0.2	12207.8
K 766.491	6889.03	ppb	17.9947	0.3	265872
Mg 279.078	7247.77	ppb	19.3357	0.3	16915.1
Mn 257.610	679.480	ppb	1.0523	0.2	181811
Mo 202.032	102.042	ppb	0.2430	0.2	850.476
Na 330.237	9649.57	ppb	45.7708	0.5	591.078
Ni 231.604	106.480	ppb	1.2898	1.2	324.733
Pb 220.353	54.2041	ppb	0.2229	0.4	144.379
Sb 206.834	52.0446	ppb	2.3462	4.5	68.2137
Se 196.026	102.623	ppb	3.9195	3.8	68.7540
Sn 189.925	202.252	ppb	0.7902	0.4	192.771
Sr 216.596	134.801	ppb	0.6623	0.5	1752.56
Ti 334.941	106.394	ppb	0.2628	0.2	32691.1
Tl 190.794	39.5704	ppb	2.0347	5.1	26.8244
V 292.401	104.840	ppb	0.0770	0.1	3036.79
Zn 206.200	111.549	ppb	2.7942	2.5	181.330



E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**680-89876-a-10-c msd (Samp) 5/8/2013, 12:42:06 AM Rack 2, Tube 34****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	48.2170	48.6839	49.3399
Al 308.215	5141.38	5171.06	5174.60
As 188.980	107.034	112.725	106.214
B 249.678	196.448	198.223	199.128
Ba 389.178	124.347	123.608	124.738
Be 313.042	52.3408	52.5565	52.6746
Ca 370.602	9008	9053	9052
Cd 226.502	51.3916	51.2617	51.1971
Co 228.615	52.7343	52.6217	52.6701
Cr 267.716	103.938	104.559	104.652
Cu 324.754	104.224	105.418	105.583
Fe 271.441	6273.43	6303.42	6304.43
K 766.491	6665.41	6685.26	6714.28
Mg 279.078	7014.67	7038.52	7057.31
Mn 257.610	655.525	657.284	658.525
Mo 202.032	99.1327	99.2520	99.3415
Na 330.237	9213.52	9153.85	9417.64
Ni 231.604	102.674	103.457	103.594
Pb 220.353	51.3119	52.0482	50.5432
Sb 206.834	48.8938	45.4587	48.4300
Se 196.026	94.7266	98.5503	97.0258
Sn 189.925	194.661	188.908	192.341
Sr 216.596	129.827	131.226	131.127
Ti 334.941	102.738	103.358	104.194
Tl 190.794	38.6120	38.4130	38.2144
V 292.401	100.949	100.941	101.232
Zn 206.200	107.128	106.047	106.163

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.7470	ppb	0.5641	1.2	3918.97
Al 308.215	5162.35	ppb	18.2485	0.4	24035.6
As 188.980	108.658	ppb	3.5460	3.3	45.3234
B 249.678	197.933	ppb	1.3638	0.7	2815.66
Ba 389.178	124.231	ppb	0.5741	0.5	2919.94
Be 313.042	52.5239	ppb	0.1693	0.3	99350.5
Ca 370.602	9038	ppb	25.75	0.3	28568
Cd 226.502	51.2835	ppb	0.0990	0.2	2186.88
Co 228.615	52.6754	ppb	0.0565	0.1	718.597
Cr 267.716	104.383	ppb	0.3881	0.4	5535.49
Cu 324.754	105.075	ppb	0.7418	0.7	5224.10
Fe 271.441	6293.76	ppb	17.6155	0.3	11859.0
K 766.491	6688.32	ppb	24.5794	0.4	258136
Mg 279.078	7036.83	ppb	21.3669	0.3	16424.0
Mn 257.610	657.112	ppb	1.5073	0.2	175829
Mo 202.032	99.2420	ppb	0.1048	0.1	827.606
Na 330.237	9261.67	ppb	138.328	1.5	570.059
Ni 231.604	103.242	ppb	0.4964	0.5	314.678
Pb 220.353	51.3011	ppb	0.7525	1.5	138.342
Sb 206.834	47.5941	ppb	1.8639	3.9	62.6984
Se 196.026	96.7675	ppb	1.9249	2.0	65.5078
Sn 189.925	191.970	ppb	2.8941	1.5	182.337
Sr 216.596	130.727	ppb	0.7805	0.6	1700.19
Ti 334.941	103.430	ppb	0.7308	0.7	31779.3
Tl 190.794	38.4131	ppb	0.1988	0.5	25.5844
V 292.401	101.040	ppb	0.1661	0.2	2926.25
Zn 206.200	106.446	ppb	0.5930	0.6	357.001

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

mb 680-275621/1-a (Samp) 5/8/2013, 12:47:32 AM Rack 2, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0245	0.1381	-0.2646u
Al 308.215	0.4530	-0.5159u	-0.2721u
As 188.980	8.1335	4.0544	-4.3994u
B 249.678	4.1894	4.2828	4.3470
Ba 389.178	-1.0273u	0.3043	-1.1053u
Be 313.042	-0.0047u	0.0014	-0.0101u
Ca 370.602	3.325	-0.4125u	2.819
Cd 226.502	-0.1225u	-0.1786u	0.0119
Co 228.615	0.2689	0.5579	0.3502
Cr 267.716	-0.2434u	-0.1952u	-0.1948u
Cu 324.754	-0.0469u	-0.6965u	-0.0901u
Fe 271.441	1.6785	-0.2383u	0.7672
K 766.491	-0.5329u	0.7123	-0.2396u
Mg 279.078	3.5320	1.3634	-1.0421u
Mn 257.610	-0.1107u	-0.1503u	-0.1447u
Mo 202.032	0.0637	-0.3380u	0.0279
Na 330.237	-51.2990u	24.9686	66.4483
Ni 231.604	0.0340	0.1255	-2.2773u
Pb 220.353	0.9663	0.2620	4.1434
Sb 206.834	2.6172	5.1169	3.6343
Se 196.026	-4.0911u	1.6290	-1.6380u
Sn 189.925	-2.2210u	2.0956	0.0632
Sr 216.596	-0.4719u	0.3394	-0.4419u
Ti 334.941	0.0258	-0.0034u	-0.0106u
Tl 190.794	0.4627	0.1346	-1.0106u
V 292.401	-0.3272u	-0.0613u	-0.0967u
Zn 206.200	2.2480	1.7379	-0.4294u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0340	ppb	0.2076	610.6	-23.7526
Al 308.215	-0.1117	ppb	0.5039	451.3	71.7687
As 188.980	2.5962	ppb	6.3925	246.2	-5.4835
B 249.678	4.2731	ppb	0.0793	1.9	204.908
Ba 389.178	-0.6094	ppb	0.7923	130.0	-8.6168
Be 313.042	-0.0045	ppb	0.0057	128.3	-385.451
Ca 370.602	1.911	ppb	2.028	106.1	13.77
Cd 226.502	-0.0964	ppb	0.0979	101.5	33.2763
Co 228.615	0.3923	ppb	0.1490	38.0	12.8131
Cr 267.716	-0.2111	ppb	0.0279	13.2	6.3279
Cu 324.754	-0.2778	ppb	0.3632	130.7	250.042
Fe 271.441	0.7358	ppb	0.9588	130.3	109.183
K 766.491	-0.0201	ppb	0.6510	3245.4	369.804
Mg 279.078	1.2844	ppb	2.2881	178.1	42.1607
Mn 257.610	-0.1352	ppb	0.0214	15.8	37.6940
Mo 202.032	-0.0821	ppb	0.2223	270.6	16.2079
Na 330.237	13.3727	ppb	59.7240	446.6	69.6823
Ni 231.604	-0.7059	ppb	1.3616	192.9	-8.0331
Pb 220.353	1.7905	ppb	2.0678	115.5	35.3640
Sb 206.834	3.7895	ppb	1.2571	33.2	8.3076
Se 196.026	-1.3667	ppb	2.8697	210.0	11.0066
Sn 189.925	-0.0208	ppb	2.1595	10405.2	-12.5051
Sr 216.596	-0.1915	ppb	0.4600	240.3	17.8539
Ti 334.941	0.0039	ppb	0.0193	494.4	-40.5315
Tl 190.794	-0.1377	ppb	0.7735	561.5	-15.8391
V 292.401	-0.1617	ppb	0.1444	89.3	-13.3192
Zn 206.200	1.1855	ppb	1.4216	119.8	31.0234

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ics 680-275621/2-a (Samp)      5/8/2013, 12:52:58 AM      Rack 2, Tube 36  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	49.6970	49.5187	49.5113
Al 308.215	4811.98	4814.18	4803.21
As 188.980	91.4842	102.998	106.198
B 249.678	193.730	195.095	195.757
Ba 389.178	102.010	102.266	102.375
Be 313.042	52.7561	52.3653	52.7143
Ca 370.602	4877	4841	4865
Cd 226.502	51.9341	51.4549	51.8842
Co 228.615	52.0929	51.6830	51.8736
Cr 267.716	104.052	103.323	103.793
Cu 324.754	104.000	102.193	101.359
Fe 271.441	4904.66	4866.37	4900.95
K 766.491	4912.00	4902.83	4930.05
Mg 279.078	4933.73	4892.32	4921.03
Mn 257.610	535.050	530.820	534.096
Mo 202.032	98.5512	97.0419	99.1668
Na 330.237	4554.32	4557.58	4480.68
Ni 231.604	102.316	101.923	100.260
Pb 220.353	51.4176	47.1490	50.7209
Sb 206.834	50.9576	46.0511	51.3921
Se 196.026	96.4703	102.521	96.2003
Sn 189.925	198.311	193.041	197.532
Sr 216.596	101.807	100.511	100.743
Ti 334.941	98.8233	98.3040	98.8032
Tl 190.794	38.3530	40.4993	40.8589
V 292.401	99.8745	99.0046	99.4001
Zn 206.200	108.189	107.819	105.925

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.5757	ppb	0.1052	0.2	3986.85
Al 308.215	4809.79	ppb	5.8029	0.1	22399.7
As 188.980	100.227	ppb	7.7387	7.7	41.2676
B 249.678	194.861	ppb	1.0341	0.5	2775.99
Ba 389.178	102.217	ppb	0.1871	0.2	2400.93
Be 313.042	52.6119	ppb	0.2146	0.4	99517.0
Ca 370.602	4861	ppb	18.60	0.4	15259
Cd 226.502	51.7577	ppb	0.2634	0.5	2201.33
Co 228.615	51.8832	ppb	0.2051	0.4	707.828
Cr 267.716	103.723	ppb	0.3691	0.4	5499.54
Cu 324.754	102.517	ppb	1.3498	1.3	5103.03
Fe 271.441	4890.66	ppb	21.1160	0.4	9241.33
K 766.491	4914.96	ppb	13.8508	0.3	189791
Mg 279.078	4915.70	ppb	21.2163	0.4	11483.4
Mn 257.610	533.322	ppb	2.2183	0.4	142711
Mo 202.032	98.2533	ppb	1.0933	1.1	819.605
Na 330.237	4530.86	ppb	43.4878	1.0	312.598
Ni 231.604	101.500	ppb	1.0914	1.1	309.239
Pb 220.353	49.7625	ppb	2.2900	4.6	135.107
Sb 206.834	49.4669	ppb	2.9662	6.0	64.9802
Se 196.026	98.3971	ppb	3.5737	3.6	66.3657
Sn 189.925	196.295	ppb	2.8448	1.4	186.721
Sr 216.596	101.020	ppb	0.6911	0.7	1316.81
Ti 334.941	98.6435	ppb	0.2942	0.3	30298.0
Tl 190.794	39.9037	ppb	1.3549	3.4	27.5202
V 292.401	99.4264	ppb	0.4356	0.4	2879.11
Zn 206.200	107.311	ppb	1.2143	1.1	3174.255

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Cont Calib Verif (CCV)                      5/8/2013, 12:58:24 AM                      Rack 2, Tube 37  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	496.065	498.012	494.955
Al 308.215	4874.04	4901.37	4952.48
As 188.980	504.900	508.826	498.861
B 249.678	501.161	504.227	514.716
Ba 389.178	5124.00	5151.84	5195.10
Be 313.042	515.792	519.576	524.033
Ca 370.602	5031	5055	5100
Cd 226.502	513.410	515.044	520.063
Co 228.615	522.710	524.971	527.844
Cr 267.716	5181.22	5197.39	5248.78
Cu 324.754	5203.27	5176.18	5180.48
Fe 271.441	4995.29	4992.36	5064.43
K 766.491	10091.0	10128.5	10261.5
Mg 279.078	4980.97	4997.95	5040.01
Mn 257.610	5282.77	5304.45	5344.43
Mo 202.032	498.214	499.821	503.390
Na 330.237	7352.13	7364.77	7022.42
Ni 231.604	2589.78	2597.50	2626.24
Pb 220.353	495.081	495.228	503.008
Sb 206.834	969.529	968.968	993.790
Se 196.026	4904.37	4923.33	4989.92
Sn 189.925	4992.76	5051.63	5073.10
Sr 216.596	2525.79	2534.10	2553.42
Ti 334.941	497.875	498.626	505.354
Tl 190.794	4993.22	5016.58	5054.49
V 292.401	4961.67	4976.57	5030.48
Zn 206.200	2612.26	2613.91	2641.70

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	496.344	ppb	1.5474	0.3	40057.5	99.26878
Al 308.215	4909.29	ppb	39.8148	0.8	22834.4	98.18590
As 188.980	504.196	ppb	5.0195	1.0	234.739	100.83917
B 249.678	506.701	ppb	7.1082	1.4	6993.30	20.26805Q
Ba 389.178	5156.98	ppb	35.8279	0.7	119855	103.13960
Be 313.042	519.801	ppb	4.1250	0.8	986483	103.96011
Ca 370.602	5062	ppb	35.02	0.7	16148	101.24543
Cd 226.502	516.172	ppb	3.4670	0.7	21456.3	103.23444
Co 228.615	525.175	ppb	2.5731	0.5	7115.88	105.03503
Cr 267.716	5209.13	ppb	35.2794	0.7	275178	104.18259
Cu 324.754	5186.64	ppb	14.5596	0.3	244942	103.73283
Fe 271.441	5017.36	ppb	40.7863	0.8	9607.76	100.34719
K 766.491	10160.3	ppb	89.6115	0.9	391946	101.60329
Mg 279.078	5006.31	ppb	30.3941	0.6	11610.0	100.12615
Mn 257.610	5310.55	ppb	31.2780	0.6	1419833	106.21101
Mo 202.032	500.475	ppb	2.6491	0.5	4097.31	100.09497
Na 330.237	7246.44	ppb	194.111	2.7	437.460	96.61919
Ni 231.604	2604.51	ppb	19.2137	0.7	8076.21	104.18029
Pb 220.353	497.772	ppb	4.5347	0.9	1066.77	99.55444
Sb 206.834	977.429	ppb	14.1716	1.4	1271.23	97.74290
Se 196.026	4939.21	ppb	44.9336	0.9	2745.15	98.78417
Sn 189.925	5039.16	ppb	41.5968	0.8	5101.29	100.78325
Sr 216.596	2537.77	ppb	14.1764	0.6	32589.4	101.51077
Ti 334.941	500.618	ppb	4.1181	0.8	153832	100.12364
Tl 190.794	5021.43	ppb	30.9252	0.6	5554.84	100.42857
V 292.401	4989.57	ppb	36.1987	0.7	145772	99.79141
Zn 206.200	2622.62	ppb	16.5426	0.6	4258.63	104.90490

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Cont Calib Blank (CCB) 5/8/2013, 1:03:50 AM Rack 2, Tube 38

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2062u	-0.4019u	-0.2707u
Al 308.215	0.3543	1.3528	1.4636
As 188.980	2.9807	5.8272	-3.4541u
B 249.678	9.7545	8.6659	6.7642
Ba 389.178	-0.6808u	-0.2556u	0.0032
Be 313.042	-0.0240u	-0.0121u	0.0073
Ca 370.602	1.223	-3.581u	-4.291u
Cd 226.502	0.0761	-0.0452u	-0.0035u
Co 228.615	0.5348	0.4153	-0.1901u
Cr 267.716	-0.0747u	-0.1437u	0.1848
Cu 324.754	0.9189	0.6453	-0.2401u
Fe 271.441	7.0370	2.4713	-1.5049u
K 766.491	-1.7214u	-1.6203u	-2.7830u
Mg 279.078	-2.6845u	0.7344	0.7939
Mn 257.610	-0.0554u	0.0314	-0.0431u
Mo 202.032	0.4421	0.1999	0.1350
Na 330.237	126.899	105.155	-42.0399u
Ni 231.604	-1.7459u	0.9588	0.5374
Pb 220.353	2.0551	0.8754	1.8780
Sb 206.834	7.0614	7.0470	8.5650
Se 196.026	-4.1955u	1.4579	-6.9795u
Sn 189.925	-0.7330u	0.3584	2.7484
Sr 216.596	-0.4351u	0.2338	-0.0692u
Ti 334.941	0.0055	0.0316	0.0129
Tl 190.794	1.6871	-2.3929u	1.9649
V 292.401	-0.2703u	0.0079	0.3932
Zn 206.200	0.9103	1.5973	2.0889

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2930	ppb	0.0997	34.0	-44.6912	-0.29295
Al 308.215	1.0569	ppb	0.6109	57.8	77.2165	1.05689
As 188.980	1.7846	ppb	4.7549	266.4	-5.8724	1.78460
B 249.678	8.3949	ppb	1.5134	18.0	260.652	8.39486
Ba 389.178	-0.3111	ppb	0.3454	111.0	-1.6856	-0.31109
Be 313.042	-0.0096	ppb	0.0158	164.6	-395.288	-0.00961
Ca 370.602	-2.217	ppb	3.000	135.3	0.3918	-2.21650
Cd 226.502	0.0091	ppb	0.0616	676.5	37.6572	0.00911
Co 228.615	0.2533	ppb	0.3887	153.4	10.9243	0.25334
Cr 267.716	-0.0112	ppb	0.1732	1547.7	16.8876	-0.01119
Cu 324.754	0.4414	ppb	0.6058	137.3	283.980	0.44135
Fe 271.441	2.6678	ppb	4.2743	160.2	112.765	2.66779
K 766.491	-2.0416	ppb	0.6441	31.5	291.896	-2.04155
Mg 279.078	-0.3854	ppb	1.9913	516.7	38.2665	-0.38541
Mn 257.610	-0.0224	ppb	0.0470	209.9	67.8551	-0.02238
Mo 202.032	0.2590	ppb	0.1618	62.5	18.9962	0.25900
Na 330.237	63.3382	ppb	91.9055	145.1	72.4022	63.33823
Ni 231.604	-0.0832	ppb	1.4553	1748.4	-6.1008	-0.08323
Pb 220.353	1.6028	ppb	0.6362	39.7	34.9735	1.60283
Sb 206.834	7.5578	ppb	0.8723	11.5	12.9570	7.55778
Se 196.026	-3.2390	ppb	4.2992	132.7	9.9710	-3.23903
Sn 189.925	0.7912	ppb	1.7806	225.0	-11.6810	0.79124
Sr 216.596	-0.0902	ppb	0.3349	371.4	19.1197	-0.09017
Ti 334.941	0.0167	ppb	0.0134	80.5	-36.6222	0.01666
Tl 190.794	0.4197	ppb	2.4397	581.3	-15.2204	0.41970
V 292.401	0.0436	ppb	0.3332	764.5	-7.3708	0.04359
Zn 206.200	1.5321	ppb	0.5920	38.6	33.5881	1.53214

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**680-89995-a-1-a (Samp)**      **5/8/2013, 1:09:15 AM**      **Rack 2, Tube 39****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1116u	-0.3346u	-0.0700u
Al 308.215	636.933	636.405	631.136
As 188.980	-1.5303u	1.1915	2.7239
B 249.678	118.227	118.076	117.587
Ba 389.178	64.8782	64.2730	62.5791
Be 313.042	0.0304	0.0400	0.0373
Ca 370.602	14715	14723	14548
Cd 226.502	0.0856	0.2010	0.1709
Co 228.615	1.1383	0.9173	1.0729
Cr 267.716	0.6118	0.9281	0.7936
Cu 324.754	22.6674	22.8272	21.9732
Fe 271.441	2429.40	2434.55	2410.69
K 766.491	9015.63	9032.46	8947.56
Mg 279.078	2856.68	2846.00	2814.29
Mn 257.610	540.815	539.133	534.077
Mo 202.032	0.2472	0.7234	0.7838
Na 330.237	36605.2	36725.4	36338.1
Ni 231.604	2.9853	0.8203	3.1647
Pb 220.353	2.5406	2.2508	6.0801
Sb 206.834	7.3614	2.5852	4.1915
Se 196.026	3.9298	-5.6289u	2.7743
Sn 189.925	1.1903	4.6945	3.3053
Sr 216.596	78.9993	78.3744	77.7907
Ti 334.941	2.9612	3.0140	2.8008
Tl 190.794	1.5834	2.7605	-1.2121u
V 292.401	1.0775	1.5288	1.2904
Zn 206.200	104.429	105.596	103.049

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1721	ppb	0.1423	82.7	-36.1540
Al 308.215	634.825	ppb	3.2053	0.5	3018.03
As 188.980	0.7950	ppb	2.1546	271.0	-6.2692
B 249.678	117.963	ppb	0.3341	0.3	1739.30
Ba 389.178	63.9101	ppb	1.1918	1.9	1501.26
Be 313.042	0.0359	ppb	0.0049	13.8	-308.816
Ca 370.602	14662	ppb	98.77	0.7	46934
Cd 226.502	0.1525	ppb	0.0598	39.2	52.4084
Co 228.615	1.0429	ppb	0.1136	10.9	21.5760
Cr 267.716	0.7778	ppb	0.1587	20.4	62.4669
Cu 324.754	22.4893	ppb	0.4540	2.0	1324.90
Fe 271.441	2424.88	ppb	12.5547	0.5	4631.64
K 766.491	8998.55	ppb	44.9529	0.5	347172
Mg 279.078	2838.99	ppb	22.0466	0.8	6645.18
Mn 257.610	538.008	ppb	3.5067	0.7	143937
Mo 202.032	0.5848	ppb	0.2939	50.3	21.5206
Na 330.237	36556.2	ppb	198.206	0.5	2060.96
Ni 231.604	2.3234	ppb	1.3049	56.2	1.4267
Pb 220.353	3.6238	ppb	2.1321	58.8	39.3320
Sb 206.834	4.7127	ppb	2.4304	51.6	9.5154
Se 196.026	0.3584	ppb	5.2173	1455.7	12.1254
Sn 189.925	3.0634	ppb	1.7646	57.6	-9.3520
Sr 216.596	78.3881	ppb	0.6044	0.8	1031.71
Ti 334.941	2.9253	ppb	0.1110	3.8	868.495
Tl 190.794	1.0439	ppb	2.0405	195.5	-15.5396
V 292.401	1.2989	ppb	0.2258	17.4	29.0232
Zn 206.200	104.358	ppb	1.2751	1.2	103.493

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**680-89995-a-1-aSD^5 (Samp) 5/8/2013, 1:14:41 AM Rack 2, Tube 40****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2637u	-0.0962u	0.2791
Al 308.215	119.020	118.566	118.256
As 188.980	1.9076	3.9161	4.4361
B 249.678	23.3745	22.0725	23.5265
Ba 389.178	11.7767	11.2738	11.5498
Be 313.042	0.0119	0.0022	-0.0119u
Ca 370.602	2777	2778	2804
Cd 226.502	0.0299	-0.2364u	-0.0141
Co 228.615	-0.4121u	0.2222	1.0077
Cr 267.716	-0.0692u	-0.2002u	-0.1661u
Cu 324.754	4.2604	3.7461	4.7639
Fe 271.441	462.601	455.976	468.762
K 766.491	1669.12	1664.83	1678.68
Mg 279.078	545.328	540.608	552.778
Mn 257.610	103.726	103.172	104.510
Mo 202.032	-0.1541u	-0.3875u	-0.0699u
Na 330.237	6758.16	6780.49	6849.64
Ni 231.604	-1.2399u	0.9618	0.2560
Pb 220.353	2.6232	1.6666	1.2010
Sb 206.834	8.9422	-1.0948u	3.0140
Se 196.026	-5.5672u	-2.2574u	5.6595
Sn 189.925	0.9685	1.9413	-0.9077u
Sr 216.596	14.8441	14.3759	15.3751
Ti 334.941	0.5134	0.5468	0.5902
Tl 190.794	-0.8545u	2.9729	-1.2173u
V 292.401	0.1351	0.2744	0.3489
Zn 206.200	20.5963	20.2612	20.1072

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0269	ppb	0.2780	1031.8	-23.4113
Al 308.215	118.614	ppb	0.3844	0.3	622.667
As 188.980	3.4199	ppb	1.3353	39.0	-5.0741
B 249.678	22.9912	ppb	0.7992	3.5	457.449
Ba 389.178	11.5335	ppb	0.2519	2.2	275.585
Be 313.042	0.0007	ppb	0.0120	1674.2	-375.592
Ca 370.602	2786	ppb	15.55	0.6	8926
Cd 226.502	-0.0735	ppb	0.1428	194.2	35.9057
Co 228.615	0.2726	ppb	0.7112	260.9	11.1937
Cr 267.716	-0.1452	ppb	0.0680	46.8	10.5553
Cu 324.754	4.2568	ppb	0.5089	12.0	464.115
Fe 271.441	462.446	ppb	6.3943	1.4	970.505
K 766.491	1670.88	ppb	7.0906	0.4	64765.5
Mg 279.078	546.238	ppb	6.1355	1.1	1310.20
Mn 257.610	103.803	ppb	0.6723	0.6	27830.5
Mo 202.032	-0.2038	ppb	0.1645	80.7	15.1862
Na 330.237	6796.10	ppb	47.6909	0.7	439.280
Ni 231.604	-0.0074	ppb	1.1242	15231.5	-5.8542
Pb 220.353	1.8303	ppb	0.7251	39.6	35.4771
Sb 206.834	3.6205	ppb	5.0459	139.4	8.1132
Se 196.026	-0.7217	ppb	5.7687	799.3	11.3951
Sn 189.925	0.6674	ppb	1.4482	217.0	-11.8024
Sr 216.596	14.8650	ppb	0.4999	3.4	212.116
Ti 334.941	0.5502	ppb	0.0385	7.0	129.521
Tl 190.794	0.3004	ppb	2.3216	772.9	-15.5478
V 292.401	0.2528	ppb	0.1085	42.9	-1.2190
Zn 206.200	20.3216	ppb	0.2501	1.2	337.2721

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**680-89995-a-1-aPDS (Samp) 5/8/2013, 1:20:06 AM Rack 2, Tube 41****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.0579	52.0934	51.6294
Al 308.215	2662.91	2684.20	2674.73
As 188.980	2270.78	2269.36	2246.12
B 249.678	1164.24	1175.78	1175.13
Ba 389.178	2262.64	2278.59	2268.26
Be 313.042	55.2687	55.6386	55.4820
Ca 370.602	20008	20168	20106
Cd 226.502	55.0241	55.2709	54.8673
Co 228.615	556.271	556.197	554.612
Cr 267.716	220.852	221.759	221.053
Cu 324.754	296.031	298.048	297.607
Fe 271.441	3441.04	3463.23	3435.45
K 766.491	14899.5	14924.4	14899.8
Mg 279.078	8178.64	8218.92	8186.50
Mn 257.610	1109.46	1114.58	1109.87
Mo 202.032	544.437	549.144	547.874
Na 330.237	42298.1	42536.3	42320.5
Ni 231.604	546.791	547.159	552.293
Pb 220.353	525.594	528.171	525.624
Sb 206.834	516.147	518.401	523.550
Se 196.026	2104.44	2125.60	2113.12
Sn 189.925	1086.98	1091.23	1078.98
Sr 216.596	624.150	626.323	623.019
Ti 334.941	1062.84	1068.53	1064.88
Tl 190.794	2161.43	2185.68	2168.32
V 292.401	527.358	529.532	527.577
Zn 206.200	652.754	656.753	654.031

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.5936	ppb	0.5187	1.0	4130.15
Al 308.215	2673.95	ppb	10.6654	0.4	12531.4
As 188.980	2262.09	ppb	13.8478	0.6	1077.11
B 249.678	1171.72	ppb	6.4815	0.6	15989.7
Ba 389.178	2269.83	ppb	8.0894	0.4	52772.3
Be 313.042	55.4631	ppb	0.1857	0.3	104843
Ca 370.602	20094	ppb	80.74	0.4	64518
Cd 226.502	55.0541	ppb	0.2034	0.4	2332.60
Co 228.615	555.693	ppb	0.9373	0.2	7527.99
Cr 267.716	221.221	ppb	0.4763	0.2	11707.4
Cu 324.754	297.229	ppb	1.0601	0.4	14297.1
Fe 271.441	3446.57	ppb	14.6923	0.4	6636.63
K 766.491	14907.9	ppb	14.2644	0.1	574916
Mg 279.078	8194.69	ppb	21.3563	0.3	19114.1
Mn 257.610	1111.30	ppb	2.8431	0.3	297252
Mo 202.032	547.151	ppb	2.4350	0.4	4488.48
Na 330.237	42384.9	ppb	131.526	0.3	2365.40
Ni 231.604	548.748	ppb	3.0758	0.6	1697.04
Pb 220.353	526.463	ppb	1.4790	0.3	1124.76
Sb 206.834	519.366	ppb	3.7947	0.7	639.075
Se 196.026	2114.39	ppb	10.6378	0.5	1181.56
Sn 189.925	1085.73	ppb	6.2178	0.6	1089.35
Sr 216.596	624.497	ppb	1.6793	0.3	8021.93
Ti 334.941	1065.41	ppb	2.8805	0.3	327417
Tl 190.794	2171.81	ppb	12.4957	0.6	2394.59
V 292.401	528.155	ppb	1.1973	0.2	15356.4
Zn 206.200	654.512	ppb	2.0426	0.3	1065.81



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**680-89995-a-1-b ms (Samp)      5/8/2013, 1:25:32 AM      Rack 2, Tube 42****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.5172	50.3923	49.9998
Al 308.215	5650.70	5528.62	5523.84
As 188.980	115.342	111.328	112.166
B 249.678	340.283	333.761	330.708
Ba 389.178	172.114	168.427	167.824
Be 313.042	54.4294	53.2511	53.0916
Ca 370.602	20479	20052	19980
Cd 226.502	53.2619	51.6294	51.7993
Co 228.615	54.1480	53.5494	52.9534
Cr 267.716	107.887	105.227	104.533
Cu 324.754	130.827	128.406	127.140
Fe 271.441	7556.82	7353.73	7335.42
K 766.491	15013.0	14620.3	14592.6
Mg 279.078	8014.90	7855.03	7828.66
Mn 257.610	1118.65	1090.35	1088.10
Mo 202.032	101.716	100.747	100.055
Na 330.237	43880.4	42800.3	42843.1
Ni 231.604	113.661	110.842	109.815
Pb 220.353	53.7511	53.7503	50.2124
Sb 206.834	54.9261	50.9470	53.4356
Se 196.026	105.875	102.874	95.1359
Sn 189.925	206.369	201.306	198.569
Sr 216.596	187.352	181.965	181.524
Ti 334.941	104.605	101.786	101.288
Tl 190.794	40.3699	39.6708	39.3341
V 292.401	104.101	101.242	101.216
Zn 206.200	216.347	214.839	211.728

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.6364	ppb	0.7876	1.6	4071.35
Al 308.215	5567.72	ppb	71.9006	1.3	25916.8
As 188.980	112.945	ppb	2.1174	1.9	47.4416
B 249.678	334.917	ppb	4.8910	1.5	4666.84
Ba 389.178	169.455	ppb	2.3225	1.4	3974.54
Be 313.042	53.5907	ppb	0.7307	1.4	101375
Ca 370.602	20170	ppb	270.0	1.3	64258
Cd 226.502	52.2302	ppb	0.8975	1.7	2230.11
Co 228.615	53.5503	ppb	0.5973	1.1	730.286
Cr 267.716	105.883	ppb	1.7702	1.7	5617.73
Cu 324.754	128.791	ppb	1.8738	1.5	6343.40
Fe 271.441	7415.32	ppb	122.881	1.7	13951.5
K 766.491	14741.9	ppb	235.118	1.6	568520
Mg 279.078	7899.53	ppb	100.776	1.3	18426.5
Mn 257.610	1099.03	ppb	17.0256	1.5	293982
Mo 202.032	100.839	ppb	0.8347	0.8	840.598
Na 330.237	43174.6	ppb	611.635	1.4	2418.38
Ni 231.604	111.439	ppb	1.9914	1.8	340.143
Pb 220.353	52.5713	ppb	2.0428	3.9	141.109
Sb 206.834	53.1029	ppb	2.0103	3.8	69.5336
Se 196.026	101.295	ppb	5.5409	5.5	68.1414
Sn 189.925	202.081	ppb	3.9572	2.0	192.618
Sr 216.596	183.614	ppb	3.2447	1.8	2382.23
Ti 334.941	102.560	ppb	1.7889	1.7	31513.4
Tl 190.794	39.7916	ppb	0.5284	1.3	26.3323
V 292.401	102.186	ppb	1.6581	1.6	2959.07
Zn 206.200	214.304	ppb	2.3551	1.1	348.962

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**680-89995-a-1-c msd (Samp) 5/8/2013, 1:30:57 AM Rack 2, Tube 43****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.9607	49.0737	49.8025
Al 308.215	5450.39	5442.95	5466.33
As 188.980	105.905	98.5941	107.917
B 249.678	322.199	319.211	321.169
Ba 389.178	166.739	165.610	165.410
Be 313.042	52.8328	52.4458	52.7327
Ca 370.602	19706	19590	19713
Cd 226.502	51.9639	51.4545	51.2056
Co 228.615	53.2568	52.5513	52.1398
Cr 267.716	104.413	103.304	103.627
Cu 324.754	125.162	124.216	124.541
Fe 271.441	7290.25	7235.87	7262.48
K 766.491	14479.2	14309.7	14435.4
Mg 279.078	7762.95	7705.43	7727.54
Mn 257.610	1079.12	1071.53	1074.61
Mo 202.032	98.8420	98.8612	99.5797
Na 330.237	42449.1	42127.1	42266.7
Ni 231.604	104.114	102.388	104.631
Pb 220.353	55.3858	52.9132	54.5316
Sb 206.834	51.4138	50.5613	55.7766
Se 196.026	95.1163	90.5764	92.9903
Sn 189.925	196.277	198.107	191.492
Sr 216.596	180.213	178.858	180.060
Ti 334.941	100.586	100.024	100.226
Tl 190.794	36.9124	40.9497	39.6706
V 292.401	100.878	99.5805	100.780
Zn 206.200	208.270	206.422	210.394

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.6123	ppb	0.4731	1.0	3988.56
Al 308.215	5453.23	ppb	11.9464	0.2	25385.3
As 188.980	104.139	ppb	4.9060	4.7	43.2206
B 249.678	320.859	ppb	1.5178	0.5	4476.91
Ba 389.178	165.920	ppb	0.7161	0.4	3891.75
Be 313.042	52.6705	ppb	0.2009	0.4	99628.2
Ca 370.602	19670	ppb	69.01	0.4	62661
Cd 226.502	51.5413	ppb	0.3866	0.8	2201.00
Co 228.615	52.6493	ppb	0.5649	1.1	718.119
Cr 267.716	103.781	ppb	0.5705	0.5	5506.57
Cu 324.754	124.640	ppb	0.4808	0.4	6147.47
Fe 271.441	7262.87	ppb	27.1930	0.4	13666.9
K 766.491	14408.1	ppb	87.9531	0.6	555653
Mg 279.078	7731.97	ppb	29.0194	0.4	18036.4
Mn 257.610	1075.09	ppb	3.8173	0.4	287578
Mo 202.032	99.0943	ppb	0.4205	0.4	826.344
Na 330.237	42281.0	ppb	161.467	0.4	2369.77
Ni 231.604	103.711	ppb	1.1748	1.1	316.158
Pb 220.353	54.2769	ppb	1.2558	2.3	144.651
Sb 206.834	52.5839	ppb	2.7977	5.3	68.8850
Se 196.026	92.8943	ppb	2.2715	2.4	63.4874
Sn 189.925	195.292	ppb	3.4161	1.7	185.728
Sr 216.596	179.710	ppb	0.7422	0.4	2332.12
Ti 334.941	100.279	ppb	0.2850	0.3	30811.6
Tl 190.794	39.1776	ppb	2.0633	5.3	25.6972
V 292.401	100.413	ppb	0.7225	0.7	2907.62
Zn 206.200	208.362	ppb	1.9875	1.0	339.264

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**680-89995-a-2-a (Samp)**      **5/8/2013, 1:36:23 AM**      **Rack 2, Tube 44****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1813u	-0.2128u	-0.1717u
Al 308.215	1764.21	1779.63	1777.02
As 188.980	-6.0299u	3.7669	6.9290
B 249.678	150.650	151.419	150.504
Ba 389.178	126.531	126.378	126.771
Be 313.042	0.0618	0.0465	0.0475
Ca 370.602	43224	43414	43438
Cd 226.502	0.1529	0.3228	0.2186
Co 228.615	0.7863	0.8852	0.7544
Cr 267.716	2.9298	2.6248	2.6462
Cu 324.754	2.8000	2.7643	2.5956
Fe 271.441	537.242	540.473	544.081
K 766.491	91249.7x	91074.2x	91554.5x
Mg 279.078	7137.81	7162.83	7173.57
Mn 257.610	1992.52	1998.16	1997.88
Mo 202.032	3.1550	4.0923	2.9463
Na 330.237	731886x	741592x	734478x
Ni 231.604	3.2152	4.4640	3.4506
Pb 220.353	0.7654	4.0705	1.6928
Sb 206.834	3.7425	3.8397	2.7734
Se 196.026	5.4381	11.4297	10.7943
Sn 189.925	-2.2083u	0.7571	-2.4423u
Sr 216.596	214.743	216.346	216.417
Ti 334.941	60.1899	60.0515	57.9654
Tl 190.794	2.3044u	-2.8092u	5.0022
V 292.401	5.2165	5.0138	5.4776
Zn 206.200	49.0135	50.5579	51.2330

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1886b	ppb	0.0215	11.4	-37.1420
Al 308.215	1773.62b	ppb	8.2536	0.5	8302.46
As 188.980	1.5553b	ppb	6.7566	434.4	-5.7019
B 249.678	150.858b	ppb	0.4919	0.3	2186.92
Ba 389.178	126.560b	ppb	0.1983	0.2	2965.50
Be 313.042	0.0519b	ppb	0.0085	16.4	-355.161
Ca 370.602	43359b	ppb	117.1	0.3	139341
Cd 226.502	0.2314b	ppb	0.0857	37.0	44.4001
Co 228.615	0.8087b	ppb	0.0682	8.4	20.1582
Cr 267.716	2.7336b	ppb	0.1703	6.2	186.032
Cu 324.754	2.7200b	ppb	0.1092	4.0	391.681
Fe 271.441	540.599b	ppb	3.4211	0.6	1116.46
K 766.491	91292.8xb	ppb	243.077	0.3	3518762
Mg 279.078	7158.07b	ppb	18.3451	0.3	16682.7
Mn 257.610	1996.18b	ppb	3.1768	0.2	533788
Mo 202.032	3.3979b	ppb	0.6104	18.0	44.6153
Na 330.237	735985xb	ppb	5025.67	0.7	40208.1
Ni 231.604	3.7099b	ppb	0.6635	17.9	5.6835
Pb 220.353	2.1762b	ppb	1.7048	78.3	36.6989
Sb 206.834	3.4519b	ppb	0.5896	17.1	7.8819
Se 196.026	9.2207b	ppb	3.2912	35.7	17.4179
Sn 189.925	-1.2978b	ppb	1.7834	137.4	-13.4595
Sr 216.596	215.835b	ppb	0.9464	0.4	2801.71
Ti 334.941	59.4023b	ppb	1.2463	2.1	18186.2
Tl 190.794	1.4991b	ppb	3.9674	264.6	-17.2992
V 292.401	5.2360b	ppb	0.2325	4.4	138.699
Zn 206.200	50.2681b	ppb	1.1378	2.3	31.0917

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680-89995-a-3-a (Samp) 5/8/2013, 1:41:48 AM Rack 2, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2974u	-0.2452u	-0.0692u
Al 308.215	332.214	337.247	333.469
As 188.980	-3.3061u	-4.8894u	-2.6462u
B 249.678	152.111	151.498	150.940
Ba 389.178	47.9640	47.8532	47.9500
Be 313.042	0.0063u	0.0129	0.0146
Ca 370.602	40664	40687	40779
Cd 226.502	5.0333	4.6462	5.0008
Co 228.615	0.6642	-0.1191u	0.2827u
Cr 267.716	14.6054	14.6217	15.1077
Cu 324.754	10.8585	10.4935	10.9946
Fe 271.441	1211.28	1216.77	1213.51
K 766.491	30053.0	30165.3	30069.9
Mg 279.078	2325.62	2331.30	2332.13
Mn 257.610	119.917	120.809	120.081
Mo 202.032	142.953	143.232	144.665
Na 330.237	41201.2	41403.3	41438.6
Ni 231.604	3.5152	2.7738	3.3788
Pb 220.353	0.4235	2.8473	3.3524
Sb 206.834	-1.7658u	3.0082	2.7071
Se 196.026	3.9192	0.3417	-3.2192u
Sn 189.925	1.7020	1.4325	1.5886
Sr 216.596	226.237	228.510	227.393
Ti 334.941	2.2258	2.3682	2.2605
Tl 190.794	5.2372	0.1578u	-3.7227u
V 292.401	0.8350u	1.1303	1.2928
Zn 206.200	60.9286	61.7044	62.4251

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2039	ppb	0.1196	58.6	-48.1168
Al 308.215	334.310	ppb	2.6193	0.8	1639.14
As 188.980	-3.6139	ppb	1.1528	31.9	-8.2298
B 249.678	151.517	ppb	0.5857	0.4	2194.78
Ba 389.178	47.9224	ppb	0.0603	0.1	1127.52
Be 313.042	0.0112	ppb	0.0044	38.8	-370.494
Ca 370.602	40710	ppb	61.05	0.1	130713
Cd 226.502	4.8934	ppb	0.2147	4.4	244.441
Co 228.615	0.2759	ppb	0.3917	142.0	5.6177
Cr 267.716	14.7783	ppb	0.2855	1.9	799.843
Cu 324.754	10.7822	ppb	0.2591	2.4	775.992
Fe 271.441	1213.85	ppb	2.7602	0.2	2372.45
K 766.491	30096.1	ppb	60.5265	0.2	1160262
Mg 279.078	2329.68	ppb	3.5386	0.2	5465.67
Mn 257.610	120.269	ppb	0.4748	0.4	32252.1
Mo 202.032	143.616	ppb	0.9187	0.6	1190.86
Na 330.237	41347.7	ppb	128.112	0.3	2323.08
Ni 231.604	3.2226	ppb	0.3946	12.2	4.1872
Pb 220.353	2.2078	ppb	1.5657	70.9	36.0274
Sb 206.834	1.3165	ppb	2.6736	203.1	3.0182
Se 196.026	0.3472	ppb	3.5692	1027.9	11.9958
Sn 189.925	1.5744	ppb	0.1353	8.6	-10.8474
Sr 216.596	227.380	ppb	1.1369	0.5	2944.17
Ti 334.941	2.2848	ppb	0.0742	3.2	668.601
Tl 190.794	0.5574	ppb	4.4933	806.1	-15.4027
V 292.401	1.0860	ppb	0.2321	21.4	-8.5408
Zn 206.200	61.6861	ppb	0.7484	1.2	997.448

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89995-a-4-a (Samp) 5/8/2013, 1:47:14 AM Rack 2, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4853	0.0395	-0.2364u
Al 308.215	710.995	708.255	708.881
As 188.980	7.3921	3.0506	1.6526
B 249.678	103.035	104.724	104.418
Ba 389.178	59.0115	60.0610	58.5294
Be 313.042	0.0280	0.0351	0.0333
Ca 370.602	12384	12427	12399
Cd 226.502	0.0495	-0.0971	0.1194
Co 228.615	1.4306	1.5462	1.2694
Cr 267.716	1.8056	1.7099	1.7719
Cu 324.754	16.9405	17.1878	17.6006
Fe 271.441	2618.80	2629.99	2621.19
K 766.491	5114.94	5137.23	5096.90
Mg 279.078	2179.15	2196.57	2180.33
Mn 257.610	904.488	909.514	906.121
Mo 202.032	1.1225	0.6699	0.1408
Na 330.237	19702.5	19959.3	19695.4
Ni 231.604	2.7348	1.6342	2.5949
Pb 220.353	4.9387	4.0968	2.0779
Sb 206.834	-0.1880u	0.8511	-1.5109u
Se 196.026	-4.0651u	-4.0966u	-1.9487u
Sn 189.925	3.1549	-0.6321u	0.8348
Sr 216.596	64.1738	64.9026	64.4756
Ti 334.941	8.3302	8.3352	8.2934
Tl 190.794	3.9044	0.9535u	3.3794
V 292.401	2.1373	2.4617	2.2043
Zn 206.200	67.8391	68.8709	68.6549

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0961	ppb	0.3641	378.8	-11.9496
Al 308.215	709.377	ppb	1.4361	0.2	3363.96
As 188.980	4.0318	ppb	2.9929	74.2	-4.7347
B 249.678	104.059	ppb	0.9001	0.9	1550.97
Ba 389.178	59.2006	ppb	0.7831	1.3	1390.42
Be 313.042	0.0321	ppb	0.0037	11.4	-314.722
Ca 370.602	12403	ppb	21.97	0.2	39671
Cd 226.502	0.0239	ppb	0.1105	461.6	47.9218
Co 228.615	1.4154	ppb	0.1390	9.8	26.7641
Cr 267.716	1.7625	ppb	0.0485	2.8	115.964
Cu 324.754	17.2430	ppb	0.3335	1.9	1077.42
Fe 271.441	2623.33	ppb	5.8941	0.2	5001.92
K 766.491	5116.36	ppb	20.2022	0.4	197553
Mg 279.078	2185.35	ppb	9.7356	0.4	5115.59
Mn 257.610	906.708	ppb	2.5638	0.3	242497
Mo 202.032	0.6444	ppb	0.4914	76.3	21.9944
Na 330.237	19785.7	ppb	150.357	0.8	1146.48
Ni 231.604	2.3213	ppb	0.5992	25.8	1.4251
Pb 220.353	3.7045	ppb	1.4702	39.7	39.5969
Sb 206.834	-0.2826	ppb	1.1838	419.0	3.3648
Se 196.026	-3.3701	ppb	1.2311	36.5	10.1663
Sn 189.925	1.1192	ppb	1.9094	170.6	-11.3333
Sr 216.596	64.5173	ppb	0.3662	0.6	853.146
Ti 334.941	8.3196	ppb	0.0228	0.3	2524.49
Tl 190.794	2.7458	ppb	1.5742	57.3	-14.2603
V 292.401	2.2678	ppb	0.1713	7.6	57.5516
Zn 206.200	68.4550	ppb	0.5442	0.8	319.980

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**680-89995-a-5-a (Samp)**      **5/8/2013, 1:52:40 AM**      **Rack 2, Tube 47****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2523u	-0.3744u	-0.5152u
Al 308.215	1766.90	1765.25	1763.20
As 188.980	2.7451	1.5177	2.6037
B 249.678	162.297	161.226	163.048
Ba 389.178	128.223	127.713	127.850
Be 313.042	0.0360	0.0355	0.0270u
Ca 370.602	43817	43803	43710
Cd 226.502	0.2981	0.1269	0.1789
Co 228.615	0.5541	0.6431	0.4964
Cr 267.716	2.2122	2.1394	1.9678
Cu 324.754	3.1810	3.1574	3.7269
Fe 271.441	464.790	471.890	467.622
K 766.491	83262.7x	83273.3x	82452.8x
Mg 279.078	6983.74	6978.03	6970.01
Mn 257.610	1699.38	1700.93	1699.02
Mo 202.032	4.2119	4.5610	4.4613
Na 330.237	582624x	585808x	582471x
Ni 231.604	4.0486	2.9115	2.9938
Pb 220.353	3.9483	5.5454	5.4648
Sb 206.834	2.8522	5.5553	-0.4166u
Se 196.026	14.2199	8.8323	8.7380
Sn 189.925	1.1081	1.9192	0.3375
Sr 216.596	222.564	220.839	220.118
Ti 334.941	17.1607	17.1778	17.0632
Tl 190.794	-0.4813u	-2.8708u	3.0257
V 292.401	5.4930	5.3999	5.3878
Zn 206.200	52.5240	53.6312	51.8839

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3806b	ppb	0.1315	34.6	-54.4309
Al 308.215	1765.12b	ppb	1.8574	0.1	8263.10
As 188.980	2.2888b	ppb	0.6715	29.3	-5.3462
B 249.678	162.190b	ppb	0.9158	0.6	2340.27
Ba 389.178	127.928b	ppb	0.2637	0.2	2996.74
Be 313.042	0.0328b	ppb	0.0051	15.5	-373.083
Ca 370.602	43777b	ppb	58.12	0.1	140675
Cd 226.502	0.2013b	ppb	0.0878	43.6	43.8316
Co 228.615	0.5645b	ppb	0.0739	13.1	15.5377
Cr 267.716	2.1065b	ppb	0.1255	6.0	148.400
Cu 324.754	3.3551b	ppb	0.3222	9.6	421.646
Fe 271.441	468.101b	ppb	3.5742	0.8	981.159
K 766.491	82996.3xb	ppb	470.697	0.6	3199017
Mg 279.078	6977.26b	ppb	6.9021	0.1	16266.6
Mn 257.610	1699.78b	ppb	1.0107	0.1	454548
Mo 202.032	4.4114b	ppb	0.1798	4.1	52.9044
Na 330.237	583635xb	ppb	1884.22	0.3	31899.3
Ni 231.604	3.3180b	ppb	0.6341	19.1	4.4655
Pb 220.353	4.9862b	ppb	0.8998	18.0	42.4882
Sb 206.834	2.6636b	ppb	2.9904	112.3	6.8851
Se 196.026	10.5968b	ppb	3.1381	29.6	18.0965
Sn 189.925	1.1216b	ppb	0.7909	70.5	-11.0700
Sr 216.596	221.174b	ppb	1.2572	0.6	2870.38
Ti 334.941	17.1339b	ppb	0.0618	0.4	5208.54
Tl 190.794	-0.1088b	ppb	2.9658	2725.6	-18.5989
V 292.401	5.4269b	ppb	0.0576	1.1	144.744
Zn 206.200	52.6797b	ppb	0.8840	206.1	85.0175

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680-89995-a-6-a (Samp) 5/8/2013, 1:58:18 AM Rack 2, Tube 48

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4310u	-0.3665u	-0.3460u
Al 308.215	555.587	551.828	551.239
As 188.980	-0.8868u	-6.4707u	-0.2649
B 249.678	152.927	153.740	154.717
Ba 389.178	57.4696	57.6055	57.1198
Be 313.042	0.0197	0.0250	0.0172
Ca 370.602	47962	47801	47928
Cd 226.502	8.6608	8.5154	8.7227
Co 228.615	0.5058	0.1539u	0.3392u
Cr 267.716	26.1106	26.1510	26.1999
Cu 324.754	8.7307	8.7495	8.7488
Fe 271.441	1837.37	1821.47	1825.36
K 766.491	34253.8	33953.0	33948.7
Mg 279.078	2321.06	2313.54	2314.11
Mn 257.610	123.577	123.606	123.625
Mo 202.032	147.300	147.187	148.338
Na 330.237	42372.9	42235.4	42178.4
Ni 231.604	2.6438	3.3341	3.3356
Pb 220.353	3.0968	1.3298	3.1763
Sb 206.834	2.8563	3.4750	5.0088
Se 196.026	-0.1859u	2.6849	-0.4740u
Sn 189.925	1.0762	0.0947	0.4414
Sr 216.596	285.168	285.930	285.074
Ti 334.941	2.8640	3.2437	2.9890
Tl 190.794	-4.1406u	-1.3602u	-4.5339u
V 292.401	2.0251	2.0671	1.9916
Zn 206.200	97.4907	96.5086	95.5265

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3812	ppb	0.0444	11.6	-65.2947
Al 308.215	552.885	ppb	2.3591	0.4	2653.74
As 188.980	-2.5408	ppb	3.4176	134.5	-7.6736
B 249.678	153.794	ppb	0.8963	0.6	2224.77
Ba 389.178	57.3983	ppb	0.2506	0.4	1348.53
Be 313.042	0.0206	ppb	0.0040	19.2	-351.018
Ca 370.602	47897	ppb	84.80	0.2	153755
Cd 226.502	8.6330	ppb	0.1064	1.2	401.747
Co 228.615	0.3329	ppb	0.1760	52.9	6.2891
Cr 267.716	26.1539	ppb	0.0447	0.2	1400.95
Cu 324.754	8.7430	ppb	0.0107	0.1	680.039
Fe 271.441	1828.07	ppb	8.2904	0.5	3518.33
K 766.491	34051.8	ppb	174.911	0.5	1312715
Mg 279.078	2316.23	ppb	4.1865	0.2	5434.33
Mn 257.610	123.602	ppb	0.0238	0.0	33145.2
Mo 202.032	147.608	ppb	0.6346	0.4	1223.46
Na 330.237	42262.3	ppb	100.015	0.2	2372.45
Ni 231.604	3.1045	ppb	0.3989	12.9	3.8358
Pb 220.353	2.5343	ppb	1.0439	41.2	36.7055
Sb 206.834	3.7800	ppb	1.1082	29.3	6.1526
Se 196.026	0.6750	ppb	1.7466	258.8	12.1820
Sn 189.925	0.5374	ppb	0.4977	92.6	-11.8956
Sr 216.596	285.390	ppb	0.4692	0.2	3691.39
Ti 334.941	3.0322	ppb	0.1935	6.4	898.244
Tl 190.794	-3.3449	ppb	1.7300	51.7	-19.7779
V 292.401	2.0279	ppb	0.0378	1.9	17.5514
Zn 206.200	96.5086	ppb	0.9821	1.0	156.548

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Cont Calib Verif (CCV)                      5/8/2013, 2:03:56 AM                      Rack 2, Tube 49  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	493.257	488.498	492.115
Al 308.215	4842.74	4812.36	4858.36
As 188.980	506.601	500.616	493.005
B 249.678	504.104	502.233	505.541
Ba 389.178	5111.03	5095.99	5109.20
Be 313.042	516.198	513.351	512.419
Ca 370.602	5012	4994	5006
Cd 226.502	509.946	508.392	511.325
Co 228.615	520.216	519.398	520.921
Cr 267.716	5151.45	5137.77	5153.63
Cu 324.754	5102.67	5142.59	5052.98
Fe 271.441	4949.12	4925.35	4961.49
K 766.491	10094.0	10063.0	10096.0
Mg 279.078	4948.86	4946.89	4969.51
Mn 257.610	5254.58	5235.82	5271.06
Mo 202.032	493.744	489.902	495.702
Na 330.237	6945.75	6837.29	7205.04
Ni 231.604	2570.49	2565.25	2578.25
Pb 220.353	489.451	490.728	491.577
Sb 206.834	968.746	966.816	965.108
Se 196.026	4842.01	4862.46	4874.43
Sn 189.925	4968.99	4976.76	5000.99
Sr 216.596	2509.10	2500.62	2511.45
Ti 334.941	496.210	494.199	494.724
Tl 190.794	4954.85	4956.10	4961.78
V 292.401	4939.81	4925.38	4934.78
Zn 206.200	2584.57	2592.01	2602.55

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	491.290	ppb	2.4846	0.5	39649.8	98.25797
Al 308.215	4837.82	ppb	23.3910	0.5	22502.8	96.75639
As 188.980	500.074	ppb	6.8139	1.4	232.766	100.01479
B 249.678	503.959	ppb	1.6585	0.3	6956.31	20.15837Q
Ba 389.178	5105.41	ppb	8.2061	0.2	118656	102.10813
Be 313.042	513.990	ppb	1.9689	0.4	975451	102.79791
Ca 370.602	5004	ppb	9.017	0.2	15963	100.07993
Cd 226.502	509.888	ppb	1.4674	0.3	21195.5	101.97755
Co 228.615	520.178	ppb	0.7624	0.1	7048.26	104.03564
Cr 267.716	5147.62	ppb	8.5982	0.2	271928	102.95233
Cu 324.754	5099.41	ppb	44.8961	0.9	240827	101.98827
Fe 271.441	4945.32	ppb	18.3649	0.4	9471.94	98.90643
K 766.491	10084.4	ppb	18.4795	0.2	389018	100.84354
Mg 279.078	4955.09	ppb	12.5270	0.3	11491.6	99.10172
Mn 257.610	5253.82	ppb	17.6303	0.3	1404666	105.07642
Mo 202.032	493.116	ppb	2.9506	0.6	4037.28	98.62318
Na 330.237	6996.02	ppb	188.958	2.7	424.103	93.28033
Ni 231.604	2571.33	ppb	6.5407	0.3	7973.26	102.85314
Pb 220.353	490.585	ppb	1.0706	0.2	1051.82	98.11710
Sb 206.834	966.890	ppb	1.8200	0.2	1257.53	96.68901
Se 196.026	4859.63	ppb	16.3907	0.3	2701.12	97.19269
Sn 189.925	4982.24	ppb	16.6890	0.3	5043.53	99.64488
Sr 216.596	2507.06	ppb	5.6948	0.2	32195.2	100.28234
Ti 334.941	495.044	ppb	1.0432	0.2	152119	99.00880
Tl 190.794	4957.58	ppb	3.6923	0.1	5484.00	99.15150
V 292.401	4933.32	ppb	7.3276	0.1	144129	98.66647
Zn 206.200	2593.04	ppb	9.0329	0.3	4210.60	103.72176



E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Blank (CCB)                      5/8/2013, 2:09:23 AM                      Rack 2, Tube 50  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1166u	-0.4646u	-0.3451u
Al 308.215	0.5657	0.7937	-1.9958u
As 188.980	4.8462	1.7858	-1.8531u
B 249.678	9.6466	8.4867	7.5347
Ba 389.178	-0.6824u	-0.7204u	-0.2548u
Be 313.042	-0.0016u	0.0078	0.0001
Ca 370.602	-0.4759u	-3.151u	2.164
Cd 226.502	-0.0471u	-0.0154u	-0.1333u
Co 228.615	-0.1107u	-0.1622u	-0.2728u
Cr 267.716	-0.2711u	-0.0867u	-0.2849u
Cu 324.754	-0.6393u	0.2684	-1.0362u
Fe 271.441	-4.1675u	-0.7468u	-5.3393u
K 766.491	-1.4429u	-1.6645u	-1.6454u
Mg 279.078	2.0726	-2.6646u	-2.7615u
Mn 257.610	-0.1731u	-0.1686u	-0.1565u
Mo 202.032	0.2401	0.1422	0.0633
Na 330.237	-46.3305u	-100.340u	-79.2454u
Ni 231.604	0.5207	1.2642	0.3658
Pb 220.353	0.0640	1.4400	0.2322
Sb 206.834	-0.9971u	-0.1055u	7.5837
Se 196.026	-8.2807u	-2.0299u	3.1225
Sn 189.925	2.1021	-1.0058u	1.1111
Sr 216.596	-0.3024u	0.4821	-0.1190u
Ti 334.941	0.0198	0.0325	0.0199
Tl 190.794	0.2134	0.5346	0.8968
V 292.401	-0.0658u	-0.1168u	0.4703
Zn 206.200	0.2119	-0.2667u	0.5441

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.3087	ppb	0.1768	57.3	-45.9804	-0.30873
Al 308.215	-0.2121	ppb	1.5489	730.2	71.3394	-0.21214
As 188.980	1.5929	ppb	3.3538	210.5	-5.9642	1.59295
B 249.678	8.5560	ppb	1.0577	12.4	262.838	8.55597
Ba 389.178	-0.5525	ppb	0.2585	46.8	-7.3043	-0.55252
Be 313.042	0.0021	ppb	0.0050	234.7	-373.016	0.00212
Ca 370.602	-0.4875	ppb	2.658	545.1	6.382	-0.48753
Cd 226.502	-0.0653	ppb	0.0610	93.5	34.5538	-0.06528
Co 228.615	-0.1819	ppb	0.0829	45.6	5.0375	-0.18189
Cr 267.716	-0.2142	ppb	0.1107	51.7	6.1574	-0.21423
Cu 324.754	-0.4690	ppb	0.6687	142.6	241.029	-0.46901
Fe 271.441	-3.4179	ppb	2.3862	69.8	101.337	-3.41788
K 766.491	-1.5842	ppb	0.1228	7.8	309.521	-1.58423
Mg 279.078	-1.1178	ppb	2.7634	247.2	36.5631	-1.11782
Mn 257.610	-0.1661	ppb	0.0086	5.2	29.4208	-0.16606
Mo 202.032	0.1485	ppb	0.0885	59.6	18.0933	0.14853
Na 330.237	-75.3051	ppb	27.2194	36.1	64.8544	-75.30514
Ni 231.604	0.7169	ppb	0.4803	67.0	-3.6181	0.71690
Pb 220.353	0.5787	ppb	0.7506	129.7	32.8440	0.57874
Sb 206.834	2.1604	ppb	4.7179	218.4	6.2902	2.16036
Se 196.026	-2.3960	ppb	5.7104	238.3	10.4372	-2.39604
Sn 189.925	0.7358	ppb	1.5876	215.8	-11.7374	0.73580
Sr 216.596	0.0203	ppb	0.4104	2026.1	20.5356	0.02025
Ti 334.941	0.0241	ppb	0.0073	30.4	-34.3332	0.02409
Tl 190.794	0.5483	ppb	0.3419	62.4	-15.0774	0.54829
V 292.401	0.0959	ppb	0.3252	339.2	-5.8477	0.09589
Zn 206.200	0.1631	ppb	0.4976	3049.8	0.6438	0.16311

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Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1412u	-0.2258u	-0.0101u
Al 308.215	314.630	314.822	314.441
As 188.980	-0.7952u	-3.6287u	-2.8716u
B 249.678	54.1054	54.6882	54.5916
Ba 389.178	40.4710	41.1583	41.6741
Be 313.042	0.0250	0.0216	0.0266
Ca 370.602	9858	9816	9824
Cd 226.502	-0.0046	-0.0203	-0.1160
Co 228.615	0.7718	0.9303	0.6775
Cr 267.716	0.1296	0.3027	0.1855
Cu 324.754	11.0236	10.2850	10.5245
Fe 271.441	1638.30	1620.56	1638.12
K 766.491	4314.82	4323.07	4302.09
Mg 279.078	1929.79	1925.32	1923.53
Mn 257.610	238.444	238.166	238.261
Mo 202.032	0.1304	0.7904	0.7222
Na 330.237	15650.8	15760.7	15811.9
Ni 231.604	1.0661	2.3114	1.5617
Pb 220.353	4.2859	1.5534	0.4955
Sb 206.834	2.9605	-1.0613u	-0.3044u
Se 196.026	-0.9165u	-0.0980	5.3410
Sn 189.925	-3.4953u	-2.0939u	-0.1354u
Sr 216.596	52.9491	53.9809	53.9732
Ti 334.941	4.6100	4.5342	4.4200
Tl 190.794	0.1294u	0.3192u	-1.9303u
V 292.401	1.1668	1.3519	1.2097
Zn 206.200	31.1255	29.2688	29.6434

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1257	ppb	0.1087	86.5	-32.6411
Al 308.215	314.631	ppb	0.1903	0.1	1532.27
As 188.980	-2.4318	ppb	1.4671	60.3	-7.8409
B 249.678	54.4617	ppb	0.3123	0.6	881.517
Ba 389.178	41.1011	ppb	0.6035	1.5	967.815
Be 313.042	0.0244	ppb	0.0025	10.4	-329.547
Ca 370.602	9833	ppb	22.59	0.2	31474
Cd 226.502	-0.0470	ppb	0.0603	128.4	41.3072
Co 228.615	0.7932	ppb	0.1278	16.1	18.2848
Cr 267.716	0.2059	ppb	0.0883	42.9	30.2187
Cu 324.754	10.6110	ppb	0.3768	3.6	764.247
Fe 271.441	1632.33	ppb	10.1928	0.6	3153.05
K 766.491	4313.33	ppb	10.5740	0.2	166605
Mg 279.078	1926.21	ppb	3.2264	0.2	4523.53
Mn 257.610	238.290	ppb	0.1411	0.1	63800.5
Mo 202.032	0.5477	ppb	0.3630	66.3	21.2618
Na 330.237	15741.1	ppb	82.3312	0.5	926.595
Ni 231.604	1.6464	ppb	0.6270	38.1	-0.6938
Pb 220.353	2.1116	ppb	1.9559	92.6	36.0988
Sb 206.834	0.5316	ppb	2.1372	402.0	4.3255
Se 196.026	1.4422	ppb	3.4012	235.8	12.6368
Sn 189.925	-1.9082	ppb	1.6877	88.4	-14.4086
Sr 216.596	53.6344	ppb	0.5935	1.1	712.272
Ti 334.941	4.5214	ppb	0.0956	2.1	1356.16
Tl 190.794	-0.4939	ppb	1.2476	252.6	-16.7147
V 292.401	1.2428	ppb	0.0969	7.8	27.6444
Zn 206.200	30.0125	ppb	0.9818	3.3	48.2012

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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3747u	-0.1530u	-0.3392u
Al 308.215	1373.40	1369.58	1370.82
As 188.980	-1.1654u	1.4095	-4.5319u
B 249.678	109.741	110.420	111.056
Ba 389.178	118.756	117.461	118.442
Be 313.042	0.0424	0.0359	0.0481
Ca 370.602	38339	38200	38255
Cd 226.502	0.1017	0.0081u	0.0859
Co 228.615	0.7330	0.2112	1.2159
Cr 267.716	2.4644	2.1355	1.6815
Cu 324.754	1.1772	1.4180	1.3099
Fe 271.441	650.384	638.853	640.907
K 766.491	66971.0x	67236.9x	66940.6x
Mg 279.078	6263.51	6257.34	6261.01
Mn 257.610	1699.11	1698.42	1701.78
Mo 202.032	1.4158	1.8612	1.4551
Na 330.237	529282x	533437x	531526x
Ni 231.604	2.8310	4.0867	3.1808
Pb 220.353	2.8439	5.2632	3.3698
Sb 206.834	1.4150	3.0525	4.8972
Se 196.026	-0.5473	-2.4494u	4.4734
Sn 189.925	-0.1054	0.2507	0.2452
Sr 216.596	171.156	169.866	171.414
Ti 334.941	9.6522	9.7352	9.8190
Tl 190.794	3.6053	1.6316u	0.3724u
V 292.401	4.1653	3.5954	4.0154
Zn 206.200	56.5976	55.2339	56.4834

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2889b	ppb	0.1191	41.2	-44.4931
Al 308.215	1371.27b	ppb	1.9491	0.1	6435.31
As 188.980	-1.4293b	ppb	2.9795	208.5	-7.1662
B 249.678	110.406b	ppb	0.6575	0.6	1639.62
Ba 389.178	118.219b	ppb	0.6754	0.6	2769.48
Be 313.042	0.0421b	ppb	0.0061	14.4	-350.037
Ca 370.602	38265b	ppb	69.78	0.2	122948
Cd 226.502	0.0652b	ppb	0.0501	76.8	39.1472
Co 228.615	0.7200b	ppb	0.5025	69.8	17.4999
Cr 267.716	2.0938b	ppb	0.3931	18.8	146.749
Cu 324.754	1.3017b	ppb	0.1206	9.3	324.759
Fe 271.441	643.381b	ppb	6.1510	1.0	1308.16
K 766.491	67049.5xb	ppb	163.020	0.2	2584434
Mg 279.078	6260.62b	ppb	3.1048	0.0	14596.9
Mn 257.610	1699.77b	ppb	1.7720	0.1	454539
Mo 202.032	1.5773b	ppb	0.2466	15.6	29.7296
Na 330.237	531415xb	ppb	2079.66	0.4	29051.2
Ni 231.604	3.3661b	ppb	0.6480	19.3	4.6191
Pb 220.353	3.8256b	ppb	1.2725	33.3	40.0755
Sb 206.834	3.1216b	ppb	1.7421	55.8	7.4998
Se 196.026	0.4922b	ppb	3.5766	726.6	12.5089
Sn 189.925	0.1302b	ppb	0.2040	156.7	-12.1017
Sr 216.596	170.812b	ppb	0.8297	0.5	2222.16
Ti 334.941	9.7354b	ppb	0.0834	0.9	2935.71
Tl 190.794	1.8698b	ppb	1.6295	87.2	-16.4110
V 292.401	3.9254b	ppb	0.2955	7.5	101.617
Zn 206.200	56.1050b	ppb	0.7565	1.3	3076213

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Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2522u	0.0443u	-0.5090u
Al 308.215	612.778	613.838	609.129
As 188.980	0.3055	0.7382	-1.8989u
B 249.678	109.172	110.547	109.932
Ba 389.178	50.7321	52.6680	50.6610
Be 313.042	0.0389	0.0364	0.0413
Ca 370.602	26733	26762	26646
Cd 226.502	7.4487	7.3238	7.2189
Co 228.615	0.5181	0.7301	0.5336
Cr 267.716	14.7088	14.7813	14.8803
Cu 324.754	9.3882	9.0826	8.2821
Fe 271.441	1564.17	1570.27	1562.39
K 766.491	19802.8	19809.8	19736.8
Mg 279.078	2145.15	2143.67	2139.44
Mn 257.610	118.352	119.440	119.038
Mo 202.032	76.8512	76.0343	75.8306
Na 330.237	30634.9	30549.2	30522.9
Ni 231.604	3.5159	3.3172	3.0460
Pb 220.353	4.6579	3.2114	2.4393
Sb 206.834	-0.8369u	1.0978	2.6959
Se 196.026	-3.9490u	3.4762	-8.6025u
Sn 189.925	-0.0916u	0.8179	0.7995
Sr 216.596	157.077	156.508	157.252
Ti 334.941	2.5057	2.4379	2.4804
Tl 190.794	-3.3721u	-2.1608u	-2.0382u
V 292.401	2.0550	1.9926	1.7952
Zn 206.200	97.6673	99.7198	100.431

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2390	ppb	0.2769	115.9	-47.4514
Al 308.215	611.915	ppb	2.4701	0.4	2919.91
As 188.980	-0.2851	ppb	1.4142	496.1	-6.7165
B 249.678	109.884	ppb	0.6889	0.6	1631.21
Ba 389.178	51.3537	ppb	1.1388	2.2	1206.89
Be 313.042	0.0389	ppb	0.0025	6.3	-310.564
Ca 370.602	26714	ppb	60.16	0.2	85715
Cd 226.502	7.3305	ppb	0.1151	1.6	346.834
Co 228.615	0.5939	ppb	0.1182	19.9	12.5908
Cr 267.716	14.7901	ppb	0.0861	0.6	800.305
Cu 324.754	8.9176	ppb	0.5712	6.4	686.323
Fe 271.441	1565.61	ppb	4.1348	0.3	3028.67
K 766.491	19783.2	ppb	40.2920	0.2	762807
Mg 279.078	2142.75	ppb	2.9610	0.1	5030.10
Mn 257.610	118.943	ppb	0.5502	0.5	31896.8
Mo 202.032	76.2387	ppb	0.5401	0.7	640.033
Na 330.237	30569.0	ppb	58.5433	0.2	1734.79
Ni 231.604	3.2930	ppb	0.2359	7.2	4.4145
Pb 220.353	3.4362	ppb	1.1263	32.8	38.7013
Sb 206.834	0.9856	ppb	1.7690	179.5	3.7727
Se 196.026	-3.0251	ppb	6.0921	201.4	10.1325
Sn 189.925	0.5086	ppb	0.5199	102.2	-11.9409
Sr 216.596	156.945	ppb	0.3891	0.2	2039.71
Ti 334.941	2.4747	ppb	0.0343	1.4	726.983
Tl 190.794	-2.5237	ppb	0.7373	29.2	-18.8080
V 292.401	1.9476	ppb	0.1356	7.0	31.1489
Zn 206.200	99.2728	ppb	1.4352	212.4	351.061

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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0926u	0.1109	-0.2993u
Al 308.215	315.785	315.783	310.856
As 188.980	1.0954	3.1352	-2.1460u
B 249.678	70.6317	68.9715	70.3730
Ba 389.178	47.3958	46.8730	46.7983
Be 313.042	0.0173	0.0239	0.0166
Ca 370.602	9746	9713	9704
Cd 226.502	0.0590	0.1368	-0.0190
Co 228.615	0.7674	0.8034	0.6952
Cr 267.716	0.3620	0.1212	0.2268
Cu 324.754	11.5336	11.4973	11.9945
Fe 271.441	2061.34	2048.29	2045.65
K 766.491	4759.77	4738.67	4768.99
Mg 279.078	2107.67	2090.86	2099.92
Mn 257.610	328.204	327.335	327.138
Mo 202.032	0.1864	-0.4380u	0.4908
Na 330.237	18259.5	18190.1	18378.1
Ni 231.604	1.3824	1.0106	1.4177
Pb 220.353	1.4886	2.0378	3.4118
Sb 206.834	2.4951	-1.1072u	1.3147
Se 196.026	3.4810	3.5774	-4.2567u
Sn 189.925	3.2980	-3.2751u	3.0806
Sr 216.596	56.1748	56.9973	56.1142
Ti 334.941	4.3550	4.3766	4.3398
Tl 190.794	1.2704	1.4489	-1.9990u
V 292.401	0.7856	0.9682	0.8007
Zn 206.200	36.5066	36.2970	35.7620

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0937	ppb	0.2051	218.9	-29.7575
Al 308.215	314.141	ppb	2.8451	0.9	1529.95
As 188.980	0.6949	ppb	2.6633	383.3	-6.3468
B 249.678	69.9921	ppb	0.8933	1.3	1091.00
Ba 389.178	47.0224	ppb	0.3255	0.7	1106.43
Be 313.042	0.0193	ppb	0.0040	21.0	-339.582
Ca 370.602	9721	ppb	22.20	0.2	31082
Cd 226.502	0.0589	ppb	0.0779	132.2	47.2467
Co 228.615	0.7554	ppb	0.0551	7.3	17.7678
Cr 267.716	0.2367	ppb	0.1207	51.0	32.4277
Cu 324.754	11.6751	ppb	0.2772	2.4	814.563
Fe 271.441	2051.76	ppb	8.4022	0.4	3935.51
K 766.491	4755.81	ppb	15.5396	0.3	183658
Mg 279.078	2099.49	ppb	8.4136	0.4	4925.78
Mn 257.610	327.559	ppb	0.5673	0.2	87668.0
Mo 202.032	0.0797	ppb	0.4735	593.8	17.4137
Na 330.237	18275.9	ppb	95.0728	0.5	1064.64
Ni 231.604	1.2702	ppb	0.2256	17.8	-1.8507
Pb 220.353	2.3127	ppb	0.9906	42.8	36.5420
Sb 206.834	0.9009	ppb	1.8365	203.9	4.8023
Se 196.026	0.9339	ppb	4.4955	481.4	12.3831
Sn 189.925	1.0345	ppb	3.7338	360.9	-11.4213
Sr 216.596	56.4287	ppb	0.4933	0.9	748.487
Ti 334.941	4.3571	ppb	0.0185	0.4	1306.37
Tl 190.794	0.2401	ppb	1.9412	808.4	-16.0687
V 292.401	0.8515	ppb	0.1014	11.9	16.2501
Zn 206.200	36.1885	ppb	0.3840	213.1	58.3169

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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1126u	-0.3004u	0.2719
Al 308.215	425.900	428.808	424.835
As 188.980	3.9027	-2.5686u	3.1353
B 249.678	101.712	101.448	102.195
Ba 389.178	43.8348	44.3988	44.2578
Be 313.042	0.0136	0.0220	0.0252
Ca 370.602	28838	28861	28779
Cd 226.502	6.6294	6.4368	6.2250
Co 228.615	0.6339	0.9269	0.5361
Cr 267.716	13.2676	13.4276	13.4019
Cu 324.754	11.3532	10.6906	11.6185
Fe 271.441	1237.62	1241.52	1243.00
K 766.491	22681.6	22755.3	22882.3
Mg 279.078	2161.64	2169.22	2169.72
Mn 257.610	109.290	109.465	109.312
Mo 202.032	103.639	103.592	103.122
Na 330.237	33683.0	34148.6	34023.7
Ni 231.604	2.4717	2.7069	2.2879
Pb 220.353	2.4164	2.3040	1.6142
Sb 206.834	-0.7320u	3.2976	2.1823
Se 196.026	3.7537	4.9967	0.2549
Sn 189.925	-1.1723u	0.7291	1.0800
Sr 216.596	175.812	174.300	175.292
Ti 334.941	3.6155	3.4574	3.5949
Tl 190.794	-3.7295u	0.6128	2.5292
V 292.401	1.5736	1.5583	1.6429
Zn 206.200	70.0731	68.9141	67.3933

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0470	ppb	0.2918	620.5	-32.8677
Al 308.215	426.514	ppb	2.0568	0.5	2062.53
As 188.980	1.4898	ppb	3.5356	237.3	-5.8551
B 249.678	101.785	ppb	0.3793	0.4	1522.12
Ba 389.178	44.1638	ppb	0.2935	0.7	1039.59
Be 313.042	0.0203	ppb	0.0060	29.4	-349.862
Ca 370.602	28826	ppb	42.61	0.1	92528
Cd 226.502	6.4304	ppb	0.2023	3.1	308.298
Co 228.615	0.6990	ppb	0.2033	29.1	12.9917
Cr 267.716	13.3657	ppb	0.0859	0.6	725.009
Cu 324.754	11.2208	ppb	0.4779	4.3	795.605
Fe 271.441	1240.71	ppb	2.7796	0.2	2422.59
K 766.491	22773.0	ppb	101.531	0.4	878036
Mg 279.078	2166.86	ppb	4.5249	0.2	5086.44
Mn 257.610	109.356	ppb	0.0952	0.1	29332.9
Mo 202.032	103.451	ppb	0.2859	0.3	862.513
Na 330.237	33951.7	ppb	240.998	0.7	1919.64
Ni 231.604	2.4888	ppb	0.2100	8.4	1.9109
Pb 220.353	2.1115	ppb	0.4344	20.6	35.8944
Sb 206.834	1.5826	ppb	2.0806	131.5	4.0284
Se 196.026	3.0018	ppb	2.4587	81.9	13.4612
Sn 189.925	0.2123	ppb	1.2118	570.9	-12.2391
Sr 216.596	175.135	ppb	0.7682	0.4	2272.56
Ti 334.941	3.5559	ppb	0.0860	2.4	1059.06
Tl 190.794	-0.1958	ppb	3.2068	1637.6	-16.2021
V 292.401	1.5916	ppb	0.0451	2.8	15.1400
Zn 206.200	68.7935	ppb	1.3440	214.8	311.339

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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2430u	-0.3078u	-0.1453u
Al 308.215	1565.63	1557.49	1560.13
As 188.980	-1.1657u	7.5657	3.6066
B 249.678	101.791	100.845	102.131
Ba 389.178	124.863	124.219	124.270
Be 313.042	0.0332	0.0403	0.0381
Ca 370.602	39200	39090	39083
Cd 226.502	0.2027	0.3271	0.1640
Co 228.615	0.7451	0.9241	0.5326
Cr 267.716	2.9616	3.0244	3.0840
Cu 324.754	1.3420	1.2602	1.6077
Fe 271.441	786.272	784.650	782.389
K 766.491	71112.4x	71606.6x	71393.7x
Mg 279.078	6489.68	6471.75	6463.80
Mn 257.610	1883.84	1882.17	1885.55
Mo 202.032	1.8514	1.5233	1.7174
Na 330.237	601081x	598047x	596974x
Ni 231.604	4.4435	3.4956	3.7377
Pb 220.353	4.2449	2.9443	2.9794
Sb 206.834	1.0850	3.6853	1.0279
Se 196.026	-0.1736	7.5434	9.4266
Sn 189.925	0.5618	-0.8388u	2.0947
Sr 216.596	170.162	169.714	168.993
Ti 334.941	11.1087	11.0321	11.0656
Tl 190.794	-0.3874u	3.1148	2.5751u
V 292.401	4.0233	4.4409	4.3680
Zn 206.200	51.2572	52.8133	53.0459

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2320b	ppb	0.0818	35.3	-38.9059
Al 308.215	1561.08b	ppb	4.1539	0.3	7316.08
As 188.980	3.3355b	ppb	4.3720	131.1	-4.8788
B 249.678	101.589b	ppb	0.6667	0.7	1520.20
Ba 389.178	124.451b	ppb	0.3580	0.3	2915.02
Be 313.042	0.0372b	ppb	0.0036	9.7	-367.245
Ca 370.602	39124b	ppb	65.96	0.2	125705
Cd 226.502	0.2313b	ppb	0.0852	36.8	46.1397
Co 228.615	0.7339b	ppb	0.1960	26.7	17.7305
Cr 267.716	3.0233b	ppb	0.0612	2.0	198.085
Cu 324.754	1.4033b	ppb	0.1817	12.9	329.585
Fe 271.441	784.437b	ppb	1.9503	0.2	1571.31
K 766.491	71370.9xb	ppb	247.900	0.3	2750980
Mg 279.078	6475.08b	ppb	13.2597	0.2	15093.3
Mn 257.610	1883.85b	ppb	1.6932	0.1	503753
Mo 202.032	1.6973b	ppb	0.1650	9.7	30.7016
Na 330.237	598701xb	ppb	2130.10	0.4	32720.9
Ni 231.604	3.8923b	ppb	0.4925	12.7	6.2552
Pb 220.353	3.3896b	ppb	0.7410	21.9	39.2220
Sb 206.834	1.9327b	ppb	1.5180	78.5	6.0483
Se 196.026	5.5988b	ppb	5.0870	90.9	15.3851
Sn 189.925	0.6059b	ppb	1.4672	242.1	-11.5892
Sr 216.596	169.623b	ppb	0.5897	0.3	2207.04
Ti 334.941	11.0688b	ppb	0.0384	0.3	3340.82
Tl 190.794	1.7675b	ppb	1.8856	106.7	-16.8321
V 292.401	4.2774b	ppb	0.2231	5.2	111.329
Zn 206.200	52.3721b	ppb	0.9726	215.8	845484

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**680-89995-a-13-a (Samp) 5/8/2013, 2:47:35 AM Rack 2, Tube 57****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1503	-0.1176u	0.1656
Al 308.215	401.564	404.000	403.641
As 188.980	-7.5373u	0.3590	4.7179
B 249.678	98.6346	99.8077	99.3719
Ba 389.178	51.5175	51.6727	52.4948
Be 313.042	0.0176	0.0247	0.0231
Ca 370.602	11449	11481	11539
Cd 226.502	-0.0280	-0.0285	0.0064
Co 228.615	0.5650	1.2997	0.4184
Cr 267.716	0.4793	0.5095	0.3843
Cu 324.754	16.5031	16.1830	17.0384
Fe 271.441	1973.17	1975.98	1986.35
K 766.491	6440.40	6433.58	6439.59
Mg 279.078	2407.15	2414.52	2428.32
Mn 257.610	482.128	482.757	485.237
Mo 202.032	0.9445	0.1587	0.6710
Na 330.237	25294.5	25492.8	25396.1
Ni 231.604	0.9493	0.9025	2.3398
Pb 220.353	3.3151	1.8785	2.2071
Sb 206.834	0.4807	0.5754	-0.1200u
Se 196.026	-1.5914u	-0.4025u	0.5543
Sn 189.925	-0.1183u	2.4305	1.3446
Sr 216.596	64.8609	64.5035	65.4766
Ti 334.941	5.1353	5.1721	5.2930
Tl 190.794	-0.4177u	5.5017	-1.1030u
V 292.401	1.0193	1.0355	0.9964
Zn 206.200	52.0266	51.7748	51.9264

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0661	ppb	0.1593	241.0	-16.4887
Al 308.215	403.068	ppb	1.3150	0.3	1942.64
As 188.980	-0.8201	ppb	6.2121	757.4	-7.0605
B 249.678	99.2714	ppb	0.5929	0.6	1487.09
Ba 389.178	51.8950	ppb	0.5252	1.0	1220.38
Be 313.042	0.0218	ppb	0.0037	17.2	-335.238
Ca 370.602	11490	ppb	45.65	0.4	36777
Cd 226.502	-0.0167	ppb	0.0200	119.6	43.8065
Co 228.615	0.7610	ppb	0.4722	62.1	17.8539
Cr 267.716	0.4577	ppb	0.0653	14.3	44.9688
Cu 324.754	16.5748	ppb	0.4322	2.6	1045.73
Fe 271.441	1978.50	ppb	6.9415	0.4	3798.84
K 766.491	6437.86	ppb	3.7253	0.1	248483
Mg 279.078	2416.66	ppb	10.7487	0.4	5662.05
Mn 257.610	483.374	ppb	1.6435	0.3	129326
Mo 202.032	0.5914	ppb	0.3989	67.4	21.6002
Na 330.237	25394.5	ppb	99.1543	0.4	1452.77
Ni 231.604	1.3972	ppb	0.8167	58.5	-1.4585
Pb 220.353	2.4669	ppb	0.7527	30.5	36.9052
Sb 206.834	0.3120	ppb	0.3771	120.9	4.0667
Se 196.026	-0.4799	ppb	1.0749	224.0	11.6437
Sn 189.925	1.2190	ppb	1.2790	104.9	-11.2301
Sr 216.596	64.9470	ppb	0.4922	0.8	858.198
Ti 334.941	5.2001	ppb	0.0825	1.6	1566.39
Tl 190.794	1.3270	ppb	3.6316	273.7	-15.1114
V 292.401	1.0171	ppb	0.0197	1.9	20.9272
Zn 206.200	51.9093	ppb	0.1268	0.2	8399373



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**680-89995-a-14-a (Samp) 5/8/2013, 2:53:01 AM Rack 2, Tube 58****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1862u	-0.1601u	-0.5116u
Al 308.215	1546.33	1548.87	1544.81
As 188.980	7.3052	-8.2334u	-5.9129u
B 249.678	96.6718	95.2705	96.1506
Ba 389.178	141.480	142.222	141.227
Be 313.042	0.0384	0.0324u	0.0310u
Ca 370.602	36954	36952	36885
Cd 226.502	0.2447	0.2123	0.2206
Co 228.615	0.8823	0.6097	0.7376
Cr 267.716	2.3301	2.1807	2.4038
Cu 324.754	1.5688	1.3522	1.7999
Fe 271.441	767.473	756.732	762.432
K 766.491	71025.8x	70616.3x	70619.0x
Mg 279.078	6307.00	6308.58	6298.31
Mn 257.610	1917.46	1917.85	1915.03
Mo 202.032	1.4479	1.6185	1.3298
Na 330.237	599331x	600231x	601670x
Ni 231.604	3.5260	4.9629	4.0422
Pb 220.353	2.4823	3.2542	5.0678
Sb 206.834	6.5950	3.2164	5.8683
Se 196.026	12.0920	1.2538	-7.2116u
Sn 189.925	0.4179	1.3613	-2.1187u
Sr 216.596	163.787	162.924	161.399
Ti 334.941	8.4392	8.4346	8.3634
Tl 190.794	-3.4752u	1.9036u	0.2090u
V 292.401	5.0253	4.8097	4.8152
Zn 206.200	49.0315	51.1057	49.1754

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2860b	ppb	0.1958	68.5	-42.7470
Al 308.215	1546.67b	ppb	2.0498	0.1	7249.17
As 188.980	-2.2804b	ppb	8.3821	367.6	-7.5840
B 249.678	96.0310b	ppb	0.7083	0.7	1445.06
Ba 389.178	141.643b	ppb	0.5169	0.4	3313.97
Be 313.042	0.0339b	ppb	0.0039	11.6	-374.403
Ca 370.602	36930b	ppb	39.16	0.1	118658
Cd 226.502	0.2259b	ppb	0.0169	7.5	45.8163
Co 228.615	0.7432b	ppb	0.1364	18.3	17.7800
Cr 267.716	2.3049b	ppb	0.1137	4.9	160.302
Cu 324.754	1.5737b	ppb	0.2239	14.2	337.608
Fe 271.441	762.212b	ppb	5.3740	0.7	1529.85
K 766.491	70753.7xb	ppb	235.639	0.3	2727193
Mg 279.078	6304.63b	ppb	5.5320	0.1	14695.6
Mn 257.610	1916.78b	ppb	1.5240	0.1	512554
Mo 202.032	1.4654b	ppb	0.1451	9.9	28.8059
Na 330.237	600411xb	ppb	1179.58	0.2	32814.3
Ni 231.604	4.1771b	ppb	0.7279	17.4	7.1383
Pb 220.353	3.6014b	ppb	1.3273	36.9	39.6732
Sb 206.834	5.2266b	ppb	1.7784	34.0	10.1080
Se 196.026	2.0447b	ppb	9.6761	473.2	13.4283
Sn 189.925	-0.1131b	ppb	1.7998	1590.8	-12.3194
Sr 216.596	162.703b	ppb	1.2096	0.7	2117.76
Ti 334.941	8.4124b	ppb	0.0425	0.5	2523.46
Tl 190.794	-0.4542b	ppb	2.7501	605.5	-19.3514
V 292.401	4.8834b	ppb	0.1229	2.5	129.110
Zn 206.200	49.7709b	ppb	1.1582	2.3	39.3072

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680-89995-a-15-a (Samp) 5/8/2013, 2:58:27 AM Rack 2, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0966u	0.0561u	0.0327u
Al 308.215	305.492	302.617	303.084
As 188.980	-1.5215u	4.0775	4.3852
B 249.678	94.8411	95.6282	95.7197
Ba 389.178	44.3932	44.7643	44.3721
Be 313.042	0.0257	0.0278	0.0299
Ca 370.602	34885	34822	34749
Cd 226.502	4.4322	4.3802	4.1252
Co 228.615	0.5164	0.5227	0.8178
Cr 267.716	12.4968	12.8409	12.5549
Cu 324.754	11.1612	10.7286	10.5034
Fe 271.441	1463.96	1456.95	1467.27
K 766.491	28698.4	28597.1	28668.5
Mg 279.078	2185.11	2193.14	2177.42
Mn 257.610	113.039	113.234	112.964
Mo 202.032	144.780	143.123	143.152
Na 330.237	33507.9	33529.0	33597.7
Ni 231.604	2.2390	2.0380	1.4726
Pb 220.353	1.0920	3.6757	4.7261
Sb 206.834	3.5410	3.8187	2.7386
Se 196.026	0.0125	5.4706	0.1724
Sn 189.925	0.5258	1.6061	1.9985
Sr 216.596	233.249	230.601	232.334
Ti 334.941	1.8657	1.8840	1.8786
Tl 190.794	-0.6280u	0.7114	-3.3483u
V 292.401	0.9966u	0.9911u	0.6007u
Zn 206.200	65.6524	64.4368	64.0359

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0026	ppb	0.0822	3165.8	-32.0732
Al 308.215	303.731	ppb	1.5429	0.5	1497.17
As 188.980	2.3137	ppb	3.3250	143.7	-5.4311
B 249.678	95.3963	ppb	0.4830	0.5	1435.43
Ba 389.178	44.5099	ppb	0.2206	0.5	1048.19
Be 313.042	0.0278	ppb	0.0021	7.6	-340.034
Ca 370.602	34819	ppb	68.10	0.2	111764
Cd 226.502	4.3126	ppb	0.1643	3.8	221.323
Co 228.615	0.6189	ppb	0.1722	27.8	10.2528
Cr 267.716	12.6308	ppb	0.1842	1.5	686.282
Cu 324.754	10.7977	ppb	0.3343	3.1	776.776
Fe 271.441	1462.72	ppb	5.2699	0.4	2836.78
K 766.491	28654.7	ppb	52.0542	0.2	1104711
Mg 279.078	2185.23	ppb	7.8630	0.4	5129.25
Mn 257.610	113.079	ppb	0.1394	0.1	30329.3
Mo 202.032	143.685	ppb	0.9483	0.7	1191.41
Na 330.237	33544.8	ppb	46.9610	0.1	1897.40
Ni 231.604	1.9165	ppb	0.3974	20.7	0.1405
Pb 220.353	3.1646	ppb	1.8702	59.1	38.0157
Sb 206.834	3.3661	ppb	0.5609	16.7	5.5429
Se 196.026	1.8852	ppb	3.1061	164.8	12.8461
Sn 189.925	1.3768	ppb	0.7627	55.4	-11.0544
Sr 216.596	232.062	ppb	1.3448	0.6	3003.86
Ti 334.941	1.8761	ppb	0.0094	0.5	542.958
Tl 190.794	-1.0883	ppb	2.0686	190.1	-17.2323
V 292.401	0.8628	ppb	0.2270	26.3	-14.7176
Zn 206.200	64.7084	ppb	0.8418	1.3	104.707

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680-89942-a-1-a (Samp) 5/8/2013, 3:03:53 AM Rack 2, Tube 60

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3446	-0.1969u	-0.3705u
Al 308.215	330.215	329.739	324.928
As 188.980	-5.4175u	4.3226	8.3760
B 249.678	7.2071	6.8681	6.3063
Ba 389.178	21.4772	21.5727	21.0811
Be 313.042	0.0144	0.0138	0.0207
Ca 370.602	4926	4906	4859
Cd 226.502	-0.0775	-0.0499	-0.1060
Co 228.615	0.7550	0.8514	0.4875
Cr 267.716	0.5273	0.3360	0.6375
Cu 324.754	2.5758	2.2339	2.1410
Fe 271.441	1376.45	1376.88	1358.00
K 766.491	2132.91	2124.46	2113.92
Mg 279.078	2541.68	2531.53	2506.20
Mn 257.610	63.7325	63.6472	62.9099
Mo 202.032	0.3498	0.2339	-0.1664u
Na 330.237	5508.88	5642.00	5823.99
Ni 231.604	1.8722	0.9768	1.8347
Pb 220.353	1.0907	0.9574	1.9383
Sb 206.834	3.3462	4.5301	3.5247
Se 196.026	-3.8052u	-5.1514u	-2.5599u
Sn 189.925	-0.0821u	-3.4832u	-2.2333u
Sr 216.596	38.3185	37.9100	38.2190
Ti 334.941	5.3523	5.0056	5.3457
Tl 190.794	-1.9743u	-3.1946u	0.7065
V 292.401	1.4676	1.2980	0.9283
Zn 206.200	3.7745	3.9814	3.8858

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0743	ppb	0.3730	502.2	-28.5956
Al 308.215	328.294	ppb	2.9247	0.9	1595.61
As 188.980	2.4270	ppb	7.0894	292.1	-5.5432
B 249.678	6.7938	ppb	0.4550	6.7	237.163
Ba 389.178	21.3770	ppb	0.2606	1.2	510.762
Be 313.042	0.0163	ppb	0.0038	23.5	-345.193
Ca 370.602	4897	ppb	34.30	0.7	15632
Cd 226.502	-0.0778	ppb	0.0281	36.0	39.1360
Co 228.615	0.6980	ppb	0.1885	27.0	17.0489
Cr 267.716	0.5002	ppb	0.1525	30.5	44.6740
Cu 324.754	2.3169	ppb	0.2290	9.9	372.836
Fe 271.441	1370.44	ppb	10.7799	0.8	2664.48
K 766.491	2123.76	ppb	9.5143	0.4	82219.6
Mg 279.078	2526.47	ppb	18.2697	0.7	5925.25
Mn 257.610	63.4299	ppb	0.4523	0.7	17059.0
Mo 202.032	0.1391	ppb	0.2708	194.7	17.9364
Na 330.237	5658.29	ppb	158.186	2.8	376.978
Ni 231.604	1.5613	ppb	0.5065	32.4	-0.9643
Pb 220.353	1.3288	ppb	0.5320	40.0	34.4247
Sb 206.834	3.8003	ppb	0.6383	16.8	8.3652
Se 196.026	-3.8388	ppb	1.2961	33.8	9.6658
Sn 189.925	-1.9329	ppb	1.7203	89.0	-14.4406
Sr 216.596	38.1492	ppb	0.2130	0.6	512.370
Ti 334.941	5.2345	ppb	0.1983	3.8	1579.13
Tl 190.794	-1.4874	ppb	1.9956	134.2	-17.5186
V 292.401	1.2313	ppb	0.2758	22.4	27.4965
Zn 206.200	3.8806	ppb	0.1935	219.0	3575687

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Cont Calib Verif (CCV)                      5/8/2013, 3:09:20 AM                      Rack 3, Tube 1  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	488.425	486.674	485.891
Al 308.215	4856.48	4851.95	4859.44
As 188.980	503.509	493.405	490.048
B 249.678	498.544	497.767	499.799
Ba 389.178	5093.83	5087.19	5098.42
Be 313.042	512.572	513.241	514.676
Ca 370.602	5001	4997	5000
Cd 226.502	511.604	509.642	509.889
Co 228.615	520.485	519.663	517.265
Cr 267.716	5152.32	5132.33	5138.91
Cu 324.754	5046.87	4996.60	5053.73
Fe 271.441	4940.55	4948.11	4945.19
K 766.491	10019.5	9996.25	10058.0
Mg 279.078	4948.18	4931.35	4942.75
Mn 257.610	5244.01	5229.78	5248.63
Mo 202.032	493.239	492.528	493.384
Na 330.237	7147.09	7023.73	7130.46
Ni 231.604	2583.82	2566.71	2572.06
Pb 220.353	492.203	487.786	490.217
Sb 206.834	969.688	960.459	963.015
Se 196.026	4894.20	4868.63	4869.90
Sn 189.925	5039.21	4960.56	5000.51
Sr 216.596	2511.68	2498.62	2500.14
Ti 334.941	494.295	493.685	495.117
Tl 190.794	4977.30	4949.75	4945.96
V 292.401	4933.93	4922.72	4925.27
Zn 206.200	2603.81	2585.64	2592.52

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	486.997	ppb	1.2978	0.3	39302.7	97.39933
Al 308.215	4855.96	ppb	3.7743	0.1	22586.9	97.11914
As 188.980	495.654	ppb	7.0070	1.4	230.648	99.13082
B 249.678	498.703	ppb	1.0253	0.2	6885.23	19.94814Q
Ba 389.178	5093.15	ppb	5.6464	0.1	118371	101.86293
Be 313.042	513.496	ppb	1.0752	0.2	974515	102.69926
Ca 370.602	4999	ppb	2.187	0.0	15947	99.98368
Cd 226.502	510.378	ppb	1.0688	0.2	21215.8	102.07569
Co 228.615	519.137	ppb	1.6728	0.3	7034.19	103.82749
Cr 267.716	5141.19	ppb	10.1917	0.2	271588	102.82370
Cu 324.754	5032.40	ppb	31.1909	0.6	237665	100.64803
Fe 271.441	4944.62	ppb	3.8084	0.1	9470.39	98.89231
K 766.491	10024.6	ppb	31.1594	0.3	386715	100.24587
Mg 279.078	4940.76	ppb	8.5910	0.2	11458.5	98.81523
Mn 257.610	5240.81	ppb	9.8203	0.2	1401187	104.81610
Mo 202.032	493.050	ppb	0.4581	0.1	4036.76	98.61008
Na 330.237	7100.43	ppb	66.9408	0.9	429.815	94.67236
Ni 231.604	2574.20	ppb	8.7482	0.3	7982.15	102.96785
Pb 220.353	490.069	ppb	2.2120	0.5	1050.75	98.01375
Sb 206.834	964.387	ppb	4.7648	0.5	1254.39	96.43873
Se 196.026	4877.58	ppb	14.4135	0.3	2711.04	97.55154
Sn 189.925	5000.09	ppb	39.3242	0.8	5061.64	100.00182
Sr 216.596	2503.48	ppb	7.1375	0.3	32149.3	100.13927
Ti 334.941	494.366	ppb	0.7184	0.1	151911	98.87319
Tl 190.794	4957.67	ppb	17.1019	0.3	5484.12	99.15340
V 292.401	4927.31	ppb	5.8727	0.1	143954	98.54615
Zn 206.200	2593.99	ppb	9.1748	0.4	4212.16	103.75945

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Blank (CCB) 5/8/2013, 3:14:46 AM Rack 3, Tube 2

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1062u	-0.1484u	-0.3383u
Al 308.215	-1.7679u	-1.4549u	-0.3181u
As 188.980	1.3288	-2.7577u	-1.5118u
B 249.678	7.3881	6.1890	5.8363
Ba 389.178	-0.0703u	-0.0619u	-0.0894u
Be 313.042	-0.0070u	-0.0022u	0.0005
Ca 370.602	-3.938u	3.518	0.7074
Cd 226.502	-0.0593u	0.0499	-0.0920u
Co 228.615	0.3164	0.1478	0.2495
Cr 267.716	-0.3291u	0.0234	-0.0331u
Cu 324.754	0.2313	0.1818	0.2849
Fe 271.441	5.7787	1.5245	-6.5365u
K 766.491	-0.9632u	-0.6875u	-1.2334u
Mg 279.078	-1.1007u	-2.7781u	-1.0060u
Mn 257.610	-0.1292u	-0.0561u	-0.0187u
Mo 202.032	-0.6040u	0.1064	-0.0305u
Na 330.237	-68.5083u	-54.6285u	-207.934u
Ni 231.604	0.1663	0.5373	-0.6455u
Pb 220.353	3.9831	-0.8844u	0.7980
Sb 206.834	5.3327	3.5228	5.3940
Se 196.026	1.6863	-1.2282u	-6.7366u
Sn 189.925	-0.6780u	2.0264	-1.5050u
Sr 216.596	-0.2946u	-0.1922u	-0.1882u
Ti 334.941	0.0578	0.0642	-0.0315u
Tl 190.794	-2.2828u	0.1476	1.2760
V 292.401	-0.2239u	-0.2112u	-0.3184u
Zn 206.200	0.7709	0.4376	0.2071

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1976	ppb	0.1236	62.6	-36.9780	-0.19763
Al 308.215	-1.1803	ppb	0.7629	64.6	66.8312	-1.18032
As 188.980	-0.9802	ppb	2.0945	213.7	-7.1971	-0.98023
B 249.678	6.4711	ppb	0.8134	12.6	234.638	6.47113
Ba 389.178	-0.0739	ppb	0.0141	19.1	3.8177	-0.07386
Be 313.042	-0.0029	ppb	0.0038	132.6	-382.486	-0.00289
Ca 370.602	0.0956	ppb	3.766	3940.6	8.078	0.09556
Cd 226.502	-0.0338	ppb	0.0743	219.8	35.8680	-0.03379
Co 228.615	0.2379	ppb	0.0849	35.7	10.7194	0.23789
Cr 267.716	-0.1129	ppb	0.1894	167.6	11.5107	-0.11295
Cu 324.754	0.2327	ppb	0.0516	22.2	274.133	0.23266
Fe 271.441	0.2556	ppb	6.2549	2447.5	108.258	0.25557
K 766.491	-0.9614	ppb	0.2730	28.4	333.526	-0.96137
Mg 279.078	-1.6283	ppb	0.9969	61.2	35.3724	-1.62827
Mn 257.610	-0.0680	ppb	0.0562	82.7	55.6442	-0.06799
Mo 202.032	-0.1760	ppb	0.3769	214.1	15.4406	-0.17604
Na 330.237	-110.357	ppb	84.7887	76.8	62.9391	-110.35693
Ni 231.604	0.0194	ppb	0.6049	3119.3	-5.7825	0.01939
Pb 220.353	1.2989	ppb	2.4721	190.3	34.3416	1.29892
Sb 206.834	4.7498	ppb	1.0631	22.4	9.4911	4.74985
Se 196.026	-2.0928	ppb	4.2775	204.4	10.6050	-2.09280
Sn 189.925	-0.0522	ppb	1.8470	3537.5	-12.5371	-0.05221
Sr 216.596	-0.2250	ppb	0.0603	26.8	17.4023	-0.22503
Ti 334.941	0.0302	ppb	0.0535	177.4	-32.4622	0.03016
Tl 190.794	-0.2864	ppb	1.8187	635.0	-16.0045	-0.28642
V 292.401	-0.2512	ppb	0.0586	23.3	-15.9852	-0.25119
Zn 206.200	0.4719	ppb	0.2835	221.0	30.1404	0.47190

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89942-a-2-a (Samp) 5/8/2013, 3:20:12 AM Rack 3, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2169u	-0.2867u	-0.3872u
Al 308.215	201.749	201.228	204.233
As 188.980	-2.4751u	-0.7541u	4.3132
B 249.678	5.0615	5.1994	5.3118
Ba 389.178	15.3242	14.6491	14.6783
Be 313.042	0.0230	0.0276	0.0145
Ca 370.602	1072	1071	1065
Cd 226.502	0.1040	0.0471	-0.0549u
Co 228.615	1.6534	0.9439	0.9945
Cr 267.716	0.8335	0.3443	0.5703
Cu 324.754	1.0998	1.3159	1.1759
Fe 271.441	578.061	569.120	574.383
K 766.491	242.651	243.684	244.393
Mg 279.078	728.412	728.761	723.592
Mn 257.610	63.8182	63.6820	63.6145
Mo 202.032	-0.1854u	0.4675	0.9071
Na 330.237	2429.48	2377.58	2363.98
Ni 231.604	1.5325	2.1057	0.8658
Pb 220.353	2.5296	0.5656	0.1207
Sb 206.834	4.7119	1.5591	1.9552
Se 196.026	0.3377	4.3825	4.9515
Sn 189.925	-1.2804u	-1.8530u	-0.1284u
Sr 216.596	10.3967	10.4491	10.3842
Ti 334.941	1.9448	1.8622	1.8998
Tl 190.794	-1.8184u	0.6850	-0.2440u
V 292.401	0.0376	0.2063	0.6188
Zn 206.200	3.1254	1.4889	2.6233

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2969	ppb	0.0856	28.8	-45.2284
Al 308.215	202.403	ppb	1.6061	0.8	1011.51
As 188.980	0.3613	ppb	3.5289	976.7	-6.5519
B 249.678	5.1909	ppb	0.1254	2.4	216.552
Ba 389.178	14.8839	ppb	0.3816	2.6	354.066
Be 313.042	0.0217	ppb	0.0066	30.5	-335.812
Ca 370.602	1069	ppb	3.474	0.3	3399
Cd 226.502	0.0321	ppb	0.0805	251.0	40.7250
Co 228.615	1.1973	ppb	0.3958	33.1	23.7124
Cr 267.716	0.5827	ppb	0.2448	42.0	48.7603
Cu 324.754	1.1972	ppb	0.1096	9.2	319.803
Fe 271.441	573.854	ppb	4.4938	0.8	1178.50
K 766.491	243.576	ppb	0.8764	0.4	9757.91
Mg 279.078	726.922	ppb	2.8886	0.4	1731.92
Mn 257.610	63.7049	ppb	0.1038	0.2	17113.0
Mo 202.032	0.3964	ppb	0.5497	138.7	20.0864
Na 330.237	2390.35	ppb	34.5648	1.4	199.083
Ni 231.604	1.5013	ppb	0.6206	41.3	-1.1698
Pb 220.353	1.0720	ppb	1.2818	119.6	33.8895
Sb 206.834	2.7421	ppb	1.7174	62.6	7.0320
Se 196.026	3.2239	ppb	2.5157	78.0	13.5671
Sn 189.925	-1.0873	ppb	0.8784	80.8	-13.5858
Sr 216.596	10.4100	ppb	0.0345	0.3	154.620
Ti 334.941	1.9023	ppb	0.0414	2.2	546.343
Tl 190.794	-0.4591	ppb	1.2655	275.6	-16.3320
V 292.401	0.2876	ppb	0.2990	104.0	-0.2848
Zn 206.200	2.4125	ppb	0.8384	34.8	370855

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680-89942-a-3-a (Samp) 5/8/2013, 3:25:39 AM Rack 3, Tube 4

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2771u	-0.3987u	-0.2836u
Al 308.215	213.523	213.081	206.626
As 188.980	1.6348	-2.8853u	6.9325
B 249.678	3.8218	3.7486	3.1567
Ba 389.178	15.4827	15.7481	16.0519
Be 313.042	0.0316	0.0255	0.0289
Ca 370.602	1244	1248	1231
Cd 226.502	-0.1378u	0.0620	-0.0231
Co 228.615	1.6558	0.3128	0.9963
Cr 267.716	0.3941	0.4843	0.7325
Cu 324.754	0.6230	0.6842	1.1102
Fe 271.441	594.373	598.748	587.398
K 766.491	255.525	256.804	255.070
Mg 279.078	763.943	761.920	757.579
Mn 257.610	66.8526	66.8778	66.2996
Mo 202.032	-0.3683u	-0.2271u	0.0353
Na 330.237	2770.37	2647.08	2446.18
Ni 231.604	6.9520	7.1333	7.1739
Pb 220.353	3.1450	2.1562	0.5734
Sb 206.834	2.5407	4.8083	2.1477
Se 196.026	-0.9734u	3.2135	1.1585
Sn 189.925	0.9741	1.5894	1.2574
Sr 216.596	10.4962	10.3399	10.8692
Ti 334.941	2.0014	2.0830	1.9555
Tl 190.794	0.0008u	-2.2395u	-0.9007u
V 292.401	0.5327	0.4096	0.5846
Zn 206.200	2.8743	3.1027	2.6150

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3198	ppb	0.0684	21.4	-47.0644
Al 308.215	211.077	ppb	3.8608	1.8	1051.71
As 188.980	1.8940	ppb	4.9140	259.5	-5.8165
B 249.678	3.5757	ppb	0.3647	10.2	194.680
Ba 389.178	15.7609	ppb	0.2848	1.8	374.559
Be 313.042	0.0287	ppb	0.0031	10.7	-322.469
Ca 370.602	1241	ppb	9.056	0.7	3948
Cd 226.502	-0.0330	ppb	0.1002	304.1	38.1023
Co 228.615	0.9883	ppb	0.6716	68.0	20.9051
Cr 267.716	0.5369	ppb	0.1752	32.6	46.3666
Cu 324.754	0.8058	ppb	0.2654	32.9	301.328
Fe 271.441	593.506	ppb	5.7244	1.0	1215.12
K 766.491	255.799	ppb	0.8991	0.4	10229.0
Mg 279.078	761.147	ppb	3.2515	0.4	1811.62
Mn 257.610	66.6767	ppb	0.3268	0.5	17907.9
Mo 202.032	-0.1867	ppb	0.2048	109.7	15.3182
Na 330.237	2621.21	ppb	163.638	6.2	211.658
Ni 231.604	7.0864	ppb	0.1181	1.7	16.1615
Pb 220.353	1.9582	ppb	1.2971	66.2	35.7337
Sb 206.834	3.1656	ppb	1.4361	45.4	7.5627
Se 196.026	1.1329	ppb	2.0936	184.8	12.4115
Sn 189.925	1.2737	ppb	0.3080	24.2	-11.1897
Sr 216.596	10.5684	ppb	0.2719	2.6	156.609
Ti 334.941	2.0133	ppb	0.0646	3.2	580.618
Tl 190.794	-1.0465	ppb	1.1273	107.7	-16.9901
V 292.401	0.5090	ppb	0.0899	17.7	6.2964
Zn 206.200	2.8640	ppb	0.2440	8.5	378240

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89942-a-4-a (Samp) 5/8/2013, 3:31:05 AM Rack 3, Tube 5

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3176u	-0.0994u	-0.0961u
Al 308.215	1.6461	1.5487	0.0745
As 188.980	3.3526	4.1543	-0.5907u
B 249.678	-2.5638u	-1.9203u	-2.6669u
Ba 389.178	0.1377	-0.4340u	0.6807
Be 313.042	-0.0079u	-0.0106u	-0.0072u
Ca 370.602	4.945	3.170	3.020
Cd 226.502	-0.0277u	0.0194	0.0555
Co 228.615	0.2428	0.3319	0.3797
Cr 267.716	0.0978	-0.0163u	-0.0898u
Cu 324.754	0.1332	0.0580	0.0035
Fe 271.441	10.3481	1.9616	9.6801
K 766.491	-1.9823u	-1.4710u	-1.2879u
Mg 279.078	0.3013	2.8360	-0.9399u
Mn 257.610	-0.1453u	-0.0847u	-0.1339u
Mo 202.032	0.0208	0.3247	0.1549
Na 330.237	-79.6241u	264.476	-116.767u
Ni 231.604	1.1498	0.1731	-1.1139u
Pb 220.353	1.1867	2.3618	2.6197
Sb 206.834	-2.8097u	-1.7435u	-0.0478u
Se 196.026	2.7266	-5.5066u	2.5890
Sn 189.925	-0.9064u	0.1862	1.6400
Sr 216.596	0.1384	-0.2141u	-0.2100u
Ti 334.941	-0.0424u	-0.0254u	-0.0181u
Tl 190.794	-1.6135u	1.0044	2.4857
V 292.401	-0.0041u	-0.1604u	0.0188
Zn 206.200	0.6897	0.9936	1.5369

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1710	ppb	0.1269	74.2	-34.8299
Al 308.215	1.0898	ppb	0.8806	80.8	77.3738
As 188.980	2.3054	ppb	2.5399	110.2	-5.6229
B 249.678	-2.3837	ppb	0.4046	17.0	114.869
Ba 389.178	0.1281	ppb	0.5574	435.0	8.5292
Be 313.042	-0.0086	ppb	0.0018	20.9	-393.330
Ca 370.602	3.712	ppb	1.071	28.9	19.07
Cd 226.502	0.0158	ppb	0.0417	264.7	37.9496
Co 228.615	0.3181	ppb	0.0695	21.8	11.7980
Cr 267.716	-0.0028	ppb	0.0945	3426.1	17.3341
Cu 324.754	0.0649	ppb	0.0651	100.3	266.222
Fe 271.441	7.3299	ppb	4.6611	63.6	121.474
K 766.491	-1.5804	ppb	0.3599	22.8	309.669
Mg 279.078	0.7325	ppb	1.9245	262.8	40.8748
Mn 257.610	-0.1213	ppb	0.0322	26.6	41.4401
Mo 202.032	0.1668	ppb	0.1523	91.3	18.2425
Na 330.237	22.6948	ppb	210.210	926.2	70.1876
Ni 231.604	0.0697	ppb	1.1354	1629.9	-5.6263
Pb 220.353	2.0561	ppb	0.7638	37.2	35.9157
Sb 206.834	-1.5337	ppb	1.3929	90.8	1.7336
Se 196.026	-0.0637	ppb	4.7142	7401.9	11.7273
Sn 189.925	0.3066	ppb	1.2775	416.7	-12.1729
Sr 216.596	-0.0952	ppb	0.2023	212.5	19.0622
Ti 334.941	-0.0286	ppb	0.0125	43.5	-50.5331
Tl 190.794	0.6256	ppb	2.0757	331.8	-14.9919
V 292.401	-0.0486	ppb	0.0975	200.8	-10.0792
Zn 206.200	1.0734	ppb	0.4292	40.0	0.8407



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680-89897-c-1-a (Samp) 5/8/2013, 3:36:31 AM Rack 3, Tube 6

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3759u	-0.2381u	-0.6838u
Al 308.215	1240.96	1241.06	1244.98
As 188.980	3.9917	11.3026	-0.9433u
B 249.678	48.5387	48.2666	48.3678
Ba 389.178	19.4398	18.7897	19.4319
Be 313.042	-0.0203u	-0.0300u	-0.0214u
Ca 370.602	64786	64641	64704
Cd 226.502	-0.0013	0.0928	0.2384
Co 228.615	0.8963	0.6945	1.1802
Cr 267.716	1.1696	1.4060	1.5425
Cu 324.754	27.7325	27.3073	26.4493
Fe 271.441	925.468	928.412	931.893
K 766.491	2219.71	2231.84	2222.68
Mg 279.078	26203.0	26161.3	26175.4
Mn 257.610	100.351	100.165	100.395
Mo 202.032	56.3621	56.5815	56.6087
Na 330.237	15752.7	15691.9	15667.2
Ni 231.604	59.7491	58.9978	61.1315
Pb 220.353	4.8800	3.5105	1.6067
Sb 206.834	-0.2455u	3.8464	3.2430
Se 196.026	4.7687	3.4468	7.4965
Sn 189.925	-1.6508u	1.6989	3.2186
Sr 216.596	86.0025	86.5690	85.9049
Ti 334.941	-0.0618	0.0232	-0.0027
Tl 190.794	-2.7260u	1.8088	-3.2448u
V 292.401	0.3646u	0.6743	0.3933u
Zn 206.200	8.1517	8.0612	9.4901

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4326	ppb	0.2282	52.7	-60.2682
Al 308.215	1242.33	ppb	2.2922	0.2	5842.97
As 188.980	4.7837	ppb	6.1612	128.8	-4.0282
B 249.678	48.3910	ppb	0.1375	0.3	800.351
Ba 389.178	19.2205	ppb	0.3730	1.9	522.305
Be 313.042	-0.0239	ppb	0.0053	22.3	-411.378
Ca 370.602	64711	ppb	72.83	0.1	207849
Cd 226.502	0.1100	ppb	0.1208	109.8	45.5470
Co 228.615	0.9237	ppb	0.2440	26.4	17.7446
Cr 267.716	1.3727	ppb	0.1887	13.7	91.0371
Cu 324.754	27.1630	ppb	0.6537	2.4	1546.46
Fe 271.441	928.591	ppb	3.2164	0.3	1840.28
K 766.491	2224.74	ppb	6.3268	0.3	86111.4
Mg 279.078	26179.9	ppb	21.2180	0.1	61040.2
Mn 257.610	100.304	ppb	0.1220	0.1	27139.0
Mo 202.032	56.5174	ppb	0.1352	0.2	478.852
Na 330.237	15703.9	ppb	43.9970	0.3	925.029
Ni 231.604	59.9595	ppb	1.0823	1.8	180.238
Pb 220.353	3.3324	ppb	1.6439	49.3	38.5301
Sb 206.834	2.2813	ppb	2.2090	96.8	5.5350
Se 196.026	5.2374	ppb	2.0651	39.4	14.6934
Sn 189.925	1.0889	ppb	2.4913	228.8	-11.3389
Sr 216.596	86.1588	ppb	0.3586	0.4	1133.26
Ti 334.941	-0.0138	ppb	0.0436	317.0	82.5039
Tl 190.794	-1.3873	ppb	2.7800	200.4	-17.4716
V 292.401	0.4774	ppb	0.1711	35.8	-6.3885
Zn 206.200	8.5677	ppb	0.8992	9.3	1371575

680-89897-c-1-b ms (Samp) 5/8/2013, 3:41:58 AM Rack 3, Tube 7  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.9464	50.0704	51.0885
Al 308.215	6181.14	6202.78	6197.18
As 188.980	108.772	114.732	107.767
B 249.678	244.079	245.086	246.385
Ba 389.178	123.234	124.193	123.720
Be 313.042	53.0352	53.0775	53.1665
Ca 370.602	68375	68471	68463
Cd 226.502	52.1158	52.2542	52.2028
Co 228.615	53.2712	52.6573	52.5057
Cr 267.716	105.390	105.561	105.769
Cu 324.754	134.170	130.945	131.993
Fe 271.441	5794.91	5804.36	5802.81
K 766.491	7561.94	7591.23	7578.13
Mg 279.078	30832.8	30872.3	30911.2
Mn 257.610	634.968	634.564	634.865
Mo 202.032	155.631	156.513	155.286
Na 330.237	20763.2	20485.7	20554.9
Ni 231.604	157.468	160.819	159.594
Pb 220.353	51.2988	50.7389	51.8457
Sb 206.834	53.4956	52.6656	52.3879
Se 196.026	100.085	108.571	102.799
Sn 189.925	195.286	199.930	204.455
Sr 216.596	187.872	187.787	188.133
Ti 334.941	99.3728	99.5378	99.8830
Tl 190.794	34.1981	40.2144	38.2822
V 292.401	100.994	100.734	100.731
Zn 206.200	113.088	115.141	116.143

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.0351	ppb	0.9391	1.8	4100.60
Al 308.215	6193.70	ppb	11.2316	0.2	28827.4
As 188.980	110.424	ppb	3.7645	3.4	46.5542
B 249.678	245.184	ppb	1.1560	0.5	3455.37
Ba 389.178	123.715	ppb	0.4794	0.4	2970.09
Be 313.042	53.0930	ppb	0.0670	0.1	100441
Ca 370.602	68437	ppb	53.35	0.1	219455
Cd 226.502	52.1909	ppb	0.0700	0.1	2222.95
Co 228.615	52.8114	ppb	0.4053	0.8	718.106
Cr 267.716	105.573	ppb	0.1898	0.2	5598.35
Cu 324.754	132.370	ppb	1.6450	1.2	6513.25
Fe 271.441	5800.69	ppb	5.0701	0.1	10939.3
K 766.491	7577.10	ppb	14.6741	0.2	292389
Mg 279.078	30872.1	ppb	39.2008	0.1	71963.5
Mn 257.610	634.799	ppb	0.2101	0.0	170088
Mo 202.032	155.810	ppb	0.6329	0.4	1290.07
Na 330.237	20601.3	ppb	144.481	0.7	1188.66
Ni 231.604	159.294	ppb	1.6958	1.1	488.599
Pb 220.353	51.2945	ppb	0.5534	1.1	138.253
Sb 206.834	52.8497	ppb	0.5763	1.1	68.2363
Se 196.026	103.818	ppb	4.3339	4.2	69.3984
Sn 189.925	199.890	ppb	4.5844	2.3	190.410
Sr 216.596	187.931	ppb	0.1803	0.1	2439.32
Ti 334.941	99.5979	ppb	0.2604	0.3	30718.8
Tl 190.794	37.5649	ppb	3.0716	8.2	24.6771
V 292.401	100.820	ppb	0.1508	0.1	2907.91
Zn 206.200	114.791	ppb	1.5571	1.4	186.546

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**680-89897-c-1-c msd (Samp) 5/8/2013, 3:47:24 AM Rack 3, Tube 8****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.7904	51.5813	51.7556
Al 308.215	6257.51	6275.85	6286.55
As 188.980	112.955	109.213	110.001
B 249.678	251.188	250.134	253.062
Ba 389.178	124.975	123.673	124.909
Be 313.042	53.7244	53.8074	53.8439
Ca 370.602	69412	69588	69612
Cd 226.502	52.5330	52.6656	52.5793
Co 228.615	53.2848	53.0878	54.1574
Cr 267.716	107.273	107.062	107.279
Cu 324.754	133.488	135.090	134.327
Fe 271.441	6127.86	6126.26	6137.33
K 766.491	7715.84	7683.94	7679.09
Mg 279.078	31315.3	31360.7	31370.8
Mn 257.610	644.784	644.114	645.540
Mo 202.032	158.922	158.445	158.895
Na 330.237	20991.5	20898.0	20906.8
Ni 231.604	162.172	162.114	162.703
Pb 220.353	48.9435	51.9924	54.3041
Sb 206.834	56.6947	51.9264	53.4492
Se 196.026	101.098	99.5653	97.6218
Sn 189.925	198.131	202.503	203.807
Sr 216.596	190.818	190.496	191.082
Ti 334.941	100.545	100.771	100.766
Tl 190.794	39.5678	39.0657	37.2441
V 292.401	102.588	101.992	101.934
Zn 206.200	115.867	116.981	117.492

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.7091	ppb	0.1120	0.2	4155.04
Al 308.215	6273.30	ppb	14.6890	0.2	29197.0
As 188.980	110.723	ppb	1.9724	1.8	46.7017
B 249.678	251.461	ppb	1.4831	0.6	3539.83
Ba 389.178	124.519	ppb	0.7331	0.6	2990.50
Be 313.042	53.7919	ppb	0.0612	0.1	101768
Ca 370.602	69537	ppb	109.1	0.2	222966
Cd 226.502	52.5926	ppb	0.0673	0.1	2240.84
Co 228.615	53.5100	ppb	0.5693	1.1	727.468
Cr 267.716	107.205	ppb	0.1234	0.1	5684.67
Cu 324.754	134.301	ppb	0.8013	0.6	6604.54
Fe 271.441	6130.48	ppb	5.9834	0.1	11554.6
K 766.491	7692.95	ppb	19.9627	0.3	296854
Mg 279.078	31348.9	ppb	29.5923	0.1	73074.5
Mn 257.610	644.812	ppb	0.7135	0.1	172771
Mo 202.032	158.754	ppb	0.2679	0.2	1314.12
Na 330.237	20932.1	ppb	51.6039	0.2	1206.56
Ni 231.604	162.330	ppb	0.3248	0.2	498.029
Pb 220.353	51.7467	ppb	2.6887	5.2	139.193
Sb 206.834	54.0234	ppb	2.4355	4.5	69.6760
Se 196.026	99.4283	ppb	1.7421	1.8	66.9753
Sn 189.925	201.480	ppb	2.9734	1.5	192.024
Sr 216.596	190.799	ppb	0.2932	0.2	2476.39
Ti 334.941	100.694	ppb	0.1294	0.1	31058.0
Tl 190.794	38.6259	ppb	1.2227	3.2	25.8200
V 292.401	102.171	ppb	0.3620	0.4	2946.88
Zn 206.200	116.780	ppb	0.8311	0.7	189.821

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**mb 680-275669/1-a (Samp)**      **5/8/2013, 3:52:50 AM**      **Rack 3, Tube 9**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0239	-0.3054u	-0.2410u
Al 308.215	0.4184	-1.1826u	2.8409
As 188.980	-4.5554u	-2.5059u	4.6413
B 249.678	4.8699	4.3150	4.8060
Ba 389.178	0.1892	-0.2921u	0.1920
Be 313.042	-0.0003u	-0.0065u	-0.0114u
Ca 370.602	1.842	-0.3562u	7.126
Cd 226.502	0.0003	-0.0195u	-0.2968u
Co 228.615	-0.3419u	-0.1602u	-0.3751u
Cr 267.716	-0.2371u	-0.2596u	-0.2869u
Cu 324.754	0.3157	0.1447	-0.1809u
Fe 271.441	2.2671	-2.3607u	6.3486
K 766.491	-0.4532u	-1.2105u	0.9803
Mg 279.078	2.9144	4.2574	8.9274
Mn 257.610	-0.0526u	-0.0357u	-0.0122u
Mo 202.032	-0.6591u	0.3521	-0.1864u
Na 330.237	-121.362u	-43.5974u	155.310
Ni 231.604	0.4844	0.4957	0.2398
Pb 220.353	-0.0671u	-1.0937u	0.4492
Sb 206.834	-3.8270u	-4.1253u	2.1003
Se 196.026	0.9934	-6.0271u	1.9010
Sn 189.925	0.6293	2.0492	-2.1979u
Sr 216.596	-0.4071u	-0.1101u	0.2091
Ti 334.941	-0.0326u	-0.0189u	0.0400
Tl 190.794	1.8059	-2.1839u	1.8629
V 292.401	-0.1632u	-0.2988u	-0.3783u
Zn 206.200	9.9618	9.4624	10.2335

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1742	ppb	0.1745	100.2	-35.0827
Al 308.215	0.6922	ppb	2.0257	292.6	75.5142
As 188.980	-0.8067	ppb	4.8281	598.5	-7.1139
B 249.678	4.6636	ppb	0.3036	6.5	210.188
Ba 389.178	0.0297	ppb	0.2787	938.0	6.2447
Be 313.042	-0.0061	ppb	0.0055	91.2	-388.523
Ca 370.602	2.871	ppb	3.846	134.0	16.76
Cd 226.502	-0.1053	ppb	0.1661	157.6	32.9112
Co 228.615	-0.2924	ppb	0.1157	39.6	3.5530
Cr 267.716	-0.2612	ppb	0.0250	9.6	3.6826
Cu 324.754	0.0931	ppb	0.2523	270.9	267.550
Fe 271.441	2.0850	ppb	4.3575	209.0	111.581
K 766.491	-0.2278	ppb	1.1127	488.5	361.799
Mg 279.078	5.3664	ppb	3.1562	58.8	51.6703
Mn 257.610	-0.0335	ppb	0.0203	60.6	64.9330
Mo 202.032	-0.1644	ppb	0.5059	307.7	15.5352
Na 330.237	-3.2163	ppb	142.688	4436.4	68.7077
Ni 231.604	0.4066	ppb	0.1446	35.6	-4.5808
Pb 220.353	-0.2372	ppb	0.7854	331.1	31.1480
Sb 206.834	-1.9507	ppb	3.5114	180.0	1.2186
Se 196.026	-1.0442	ppb	4.3391	415.5	11.1850
Sn 189.925	0.1602	ppb	2.1621	1349.5	-12.3214
Sr 216.596	-0.1027	ppb	0.3082	300.1	18.9715
Ti 334.941	-0.0039	ppb	0.0385	1000.6	-42.8907
Tl 190.794	0.4950	ppb	2.3201	468.7	-15.1372
V 292.401	-0.2801	ppb	0.1088	38.8	-16.8119
Zn 206.200	9.8859	ppb	0.3911	4.0	357.2078

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

ics 680-275669/2-a (Samp)      5/8/2013, 3:58:16 AM      Rack 3, Tube 10  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.1414	50.3880	50.4165
Al 308.215	4798.66	4813.99	4801.53
As 188.980	106.829	105.584	101.073
B 249.678	192.865	195.485	195.579
Ba 389.178	102.328	102.758	101.737
Be 313.042	51.8072	51.9788	51.9040
Ca 370.602	4838	4868	4856
Cd 226.502	52.4665	52.4465	52.3083
Co 228.615	51.6899	52.5611	52.2307
Cr 267.716	103.590	104.355	103.864
Cu 324.754	101.759	101.899	101.121
Fe 271.441	4888.59	4909.90	4890.11
K 766.491	5090.49	5099.45	5112.02
Mg 279.078	4950.74	4974.78	4962.65
Mn 257.610	532.747	534.752	533.478
Mo 202.032	98.2454	98.8963	98.7738
Na 330.237	4543.22	4885.03	4382.17
Ni 231.604	103.334	103.489	103.851
Pb 220.353	51.7041	50.9581	51.2217
Sb 206.834	50.9170	45.7224	51.1725
Se 196.026	98.8812	93.9523	94.0026
Sn 189.925	193.580	199.377	201.525
Sr 216.596	101.835	100.858	101.619
Ti 334.941	98.1542	98.5209	98.3203
Tl 190.794	34.9645	46.4651	39.9513
V 292.401	99.3302	100.384	99.5930
Zn 206.200	110.878	107.654	107.227

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.3153	ppb	0.1512	0.3	4046.64
Al 308.215	4804.73	ppb	8.1483	0.2	22376.2
As 188.980	104.495	ppb	3.0281	2.9	43.3126
B 249.678	194.643	ppb	1.5406	0.8	2773.02
Ba 389.178	102.274	ppb	0.5125	0.5	2402.44
Be 313.042	51.8967	ppb	0.0860	0.2	98158.7
Ca 370.602	4854	ppb	15.11	0.3	15236
Cd 226.502	52.4071	ppb	0.0862	0.2	2228.31
Co 228.615	52.1606	ppb	0.4398	0.8	711.559
Cr 267.716	103.936	ppb	0.3875	0.4	5510.82
Cu 324.754	101.593	ppb	0.4146	0.4	5059.44
Fe 271.441	4896.20	ppb	11.8912	0.2	9251.72
K 766.491	5100.65	ppb	10.8148	0.2	196948
Mg 279.078	4962.72	ppb	12.0192	0.2	11593.0
Mn 257.610	533.659	ppb	1.0147	0.2	142802
Mo 202.032	98.6385	ppb	0.3459	0.4	822.753
Na 330.237	4603.47	ppb	256.785	5.6	316.544
Ni 231.604	103.558	ppb	0.2654	0.3	315.625
Pb 220.353	51.2946	ppb	0.3783	0.7	138.293
Sb 206.834	49.2706	ppb	3.0755	6.2	64.7330
Se 196.026	95.6120	ppb	2.8313	3.0	64.8254
Sn 189.925	198.161	ppb	4.1099	2.1	188.615
Sr 216.596	101.437	ppb	0.5133	0.5	1322.14
Ti 334.941	98.3318	ppb	0.1836	0.2	30202.5
Tl 190.794	40.4603	ppb	5.7672	14.3	28.1370
V 292.401	99.7690	ppb	0.5484	0.5	2889.11
Zn 206.200	108.586	ppb	1.9958	1.8	3576.336

640-43377-a-3-a (Samp) 5/8/2013, 4:03:43 AM Rack 3, Tube 11  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0399u	-0.4295u	-0.0740u
Al 308.215	4.2057	8.5015	12.0672
As 188.980	-0.0966	2.3664	3.3975
B 249.678	53.3175	52.7808	53.2882
Ba 389.178	41.7126	41.2208	41.5087
Be 313.042	-0.0054u	-0.0009u	-0.0089u
Ca 370.602	17341	17308	17232
Cd 226.502	0.0314	0.0263	-0.0060
Co 228.615	1.0195	0.8682	1.0871
Cr 267.716	0.0381	-0.2192u	-0.0029
Cu 324.754	1.4679	1.0120	1.1990
Fe 271.441	1100.08	1089.91	1096.94
K 766.491	2655.06	2651.71	2656.14
Mg 279.078	7647.37	7611.81	7577.93
Mn 257.610	150.735	150.082	149.867
Mo 202.032	0.2246	0.4892	0.2410
Na 330.237	128205x	128525x	126948x
Ni 231.604	0.8569	1.2637	2.1366
Pb 220.353	2.5668	2.7333	2.3875
Sb 206.834	-0.9376u	1.1604	0.1053
Se 196.026	-3.9034u	3.4599	-0.1395u
Sn 189.925	0.2020	0.1027	-1.1434u
Sr 216.596	1130.31	1125.53	1120.61
Ti 334.941	0.0561	-0.0190	0.0704
Tl 190.794	-0.2914u	4.7575	0.5533
V 292.401	-0.6758u	-0.2448u	-0.2588u
Zn 206.200	2.4032	3.1778	3.8974

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1811b	ppb	0.2158	119.1	-90.1877
Al 308.215	8.2581b	ppb	3.9364	47.7	110.654
As 188.980	1.8891b	ppb	1.7953	95.0	-5.7169
B 249.678	53.1288b	ppb	0.3017	0.6	864.201
Ba 389.178	41.4807b	ppb	0.2471	0.6	990.803
Be 313.042	-0.0051b	ppb	0.0040	79.5	-396.040
Ca 370.602	17294b	ppb	55.77	0.3	55487
Cd 226.502	0.0172b	ppb	0.0203	117.7	41.3752
Co 228.615	0.9916b	ppb	0.1121	11.3	20.8583
Cr 267.716	-0.0613b	ppb	0.1383	225.4	17.7484
Cu 324.754	1.2263b	ppb	0.2292	18.7	321.328
Fe 271.441	1095.64b	ppb	5.2041	0.5	2151.87
K 766.491	2654.31b	ppb	2.3088	0.1	102667
Mg 279.078	7612.37b	ppb	34.7258	0.5	17774.7
Mn 257.610	150.228b	ppb	0.4520	0.3	40309.8
Mo 202.032	0.3183b	ppb	0.1483	46.6	19.4202
Na 330.237	127892xb	ppb	833.558	0.7	7043.71
Ni 231.604	1.4190b	ppb	0.6538	46.1	-1.4124
Pb 220.353	2.5625b	ppb	0.1730	6.7	37.0091
Sb 206.834	0.1094b	ppb	1.0490	959.0	3.7903
Se 196.026	-0.1943b	ppb	3.6819	1894.8	11.7038
Sn 189.925	-0.2795b	ppb	0.7497	268.2	-12.7033
Sr 216.596	1125.48b	ppb	4.8550	0.4	14498.7
Ti 334.941	0.0358b	ppb	0.0481	134.1	-3.8174
Tl 190.794	1.6731b	ppb	2.7043	161.6	-14.1355
V 292.401	-0.3931b	ppb	0.2449	62.3	-21.1838
Zn 206.200	3.1595b	ppb	0.7472	23.7	4.3641

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**640-43377-a-3-aSD^5 (Samp) 5/8/2013, 4:09:09 AM Rack 3, Tube 12****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2297u	-0.4341u	-0.0956u
Al 308.215	1.1948	0.3251	0.8402
As 188.980	-1.2906u	1.6514	1.5317
B 249.678	11.3312	11.1925	11.0828
Ba 389.178	8.2019	7.7571	8.6408
Be 313.042	-0.0101u	-0.0076u	-0.0172u
Ca 370.602	3740	3757	3724
Cd 226.502	-0.0040	-0.0486u	-0.1918u
Co 228.615	0.3829	0.5194	0.6453
Cr 267.716	-0.0529u	-0.1016u	-0.1342u
Cu 324.754	0.7490	0.2939	0.5507
Fe 271.441	238.474	245.444	243.204
K 766.491	515.433	517.944	515.613
Mg 279.078	1661.70	1672.89	1657.00
Mn 257.610	32.9175	32.8885	32.6985
Mo 202.032	0.1351	0.2502	0.3964
Na 330.237	26349.0	26506.8	26254.5
Ni 231.604	0.5115	0.0942	-0.0875u
Pb 220.353	0.4242	-1.6271u	0.4881
Sb 206.834	0.7512	1.0578	3.6234
Se 196.026	6.2818	-1.4214u	-0.5407u
Sn 189.925	-0.5255u	1.9980	0.4804
Sr 216.596	245.852	247.463	244.634
Ti 334.941	-0.0396u	-0.0068	-0.0226u
Tl 190.794	-0.5795u	3.0259	-0.0150u
V 292.401	-0.3513u	-0.4276u	0.0727
Zn 206.200	0.4623	1.2332	1.4178

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2531	ppb	0.1705	67.3	-53.3596
Al 308.215	0.7867	ppb	0.4373	55.6	75.9880
As 188.980	0.6308	ppb	1.6651	263.9	-6.4025
B 249.678	11.2022	ppb	0.1245	1.1	298.299
Ba 389.178	8.1999	ppb	0.4419	5.4	200.761
Be 313.042	-0.0117	ppb	0.0050	42.6	-401.078
Ca 370.602	3740	ppb	16.28	0.4	12006
Cd 226.502	-0.0815	ppb	0.0981	120.4	34.6528
Co 228.615	0.5158	ppb	0.1312	25.4	14.4544
Cr 267.716	-0.0962	ppb	0.0409	42.5	13.1353
Cu 324.754	0.5312	ppb	0.2282	43.0	288.293
Fe 271.441	242.374	ppb	3.5581	1.5	559.990
K 766.491	516.330	ppb	1.4008	0.3	20269.7
Mg 279.078	1663.86	ppb	8.1641	0.5	3915.68
Mn 257.610	32.8348	ppb	0.1190	0.4	8868.07
Mo 202.032	0.2606	ppb	0.1310	50.3	18.9960
Na 330.237	26370.1	ppb	127.491	0.5	1507.07
Ni 231.604	0.1727	ppb	0.3071	177.8	-5.3007
Pb 220.353	-0.2382	ppb	1.2032	505.0	31.1539
Sb 206.834	1.8108	ppb	1.5772	87.1	5.8653
Se 196.026	1.4399	ppb	4.2163	292.8	12.5697
Sn 189.925	0.6510	ppb	1.2704	195.2	-11.8101
Sr 216.596	245.983	ppb	1.4188	0.6	3184.66
Ti 334.941	-0.0230	ppb	0.0164	71.4	-42.7915
Tl 190.794	0.8105	ppb	1.9393	239.3	-14.8537
V 292.401	-0.2354	ppb	0.2695	114.5	-15.7862
Zn 206.200	1.0378	ppb	0.5068	48.8	0.8093

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Verif (CCV) 5/8/2013, 4:14:35 AM Rack 3, Tube 13  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	493.535	491.989	487.730
Al 308.215	4825.31	4813.26	4855.05
As 188.980	496.831	499.144	495.972
B 249.678	500.829	505.816	503.512
Ba 389.178	5105.32	5076.72	5103.12
Be 313.042	513.733	512.472	514.063
Ca 370.602	4997	4986	5009
Cd 226.502	513.013	511.336	514.924
Co 228.615	522.224	520.760	521.527
Cr 267.716	5171.50	5143.67	5169.14
Cu 324.754	4987.46	5092.09	4968.97
Fe 271.441	4959.39	4957.55	4977.54
K 766.491	10084.5	10084.9	10086.0
Mg 279.078	4966.04	4949.82	4970.14
Mn 257.610	5258.70	5249.06	5269.20
Mo 202.032	493.682	492.079	497.720
Na 330.237	7240.75	7122.90	7524.54
Ni 231.604	2584.19	2579.84	2590.44
Pb 220.353	488.432	491.309	494.707
Sb 206.834	967.892	966.689	974.782
Se 196.026	4920.26	4876.40	4905.44
Sn 189.925	5041.09	4991.64	5021.84
Sr 216.596	2522.25	2505.71	2517.47
Ti 334.941	496.758	493.799	496.772
Tl 190.794	5017.15	4977.94	5007.59
V 292.401	4951.77	4929.52	4959.73
Zn 206.200	2619.07	2602.77	2608.22

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	491.085	ppb	3.0063	0.6	39632.2	98.21699
Al 308.215	4831.21	ppb	21.5108	0.4	22472.2	96.62416
As 188.980	497.316	ppb	1.6403	0.3	231.444	99.46317
B 249.678	503.386	ppb	2.4959	0.5	6948.52	20.13542Q
Ba 389.178	5095.05	ppb	15.9163	0.3	118416	101.90108
Be 313.042	513.423	ppb	0.8395	0.2	974374	102.68453
Ca 370.602	4997	ppb	11.53	0.2	15940	99.94834
Cd 226.502	513.091	ppb	1.7956	0.3	21328.4	102.61821
Co 228.615	521.504	ppb	0.7320	0.1	7066.13	104.30070
Cr 267.716	5161.44	ppb	15.4311	0.3	272658	103.22875
Cu 324.754	5016.17	ppb	66.3939	1.3	236899	100.32349
Fe 271.441	4964.83	ppb	11.0489	0.2	9508.70	99.29657
K 766.491	10085.1	ppb	0.7637	0.0	389047	100.85103
Mg 279.078	4962.00	ppb	10.7474	0.2	11507.7	99.23999
Mn 257.610	5258.99	ppb	10.0685	0.2	1406048	105.17976
Mo 202.032	494.494	ppb	2.9064	0.6	4048.51	98.89873
Na 330.237	7296.06	ppb	206.453	2.8	440.328	97.28082
Ni 231.604	2584.82	ppb	5.3310	0.2	8015.13	103.39289
Pb 220.353	491.482	ppb	3.1412	0.6	1053.69	98.29649
Sb 206.834	969.788	ppb	4.3665	0.5	1261.27	96.97878
Se 196.026	4900.70	ppb	22.3120	0.5	2723.84	98.01395
Sn 189.925	5018.19	ppb	24.9249	0.5	5080.01	100.36378
Sr 216.596	2515.14	ppb	8.5108	0.3	32298.9	100.60561
Ti 334.941	495.776	ppb	1.7126	0.3	152344	99.15527
Tl 190.794	5000.89	ppb	20.4461	0.4	5532.10	100.01780
V 292.401	4947.01	ppb	15.6615	0.3	144529	98.94016
Zn 206.200	2610.02	ppb	8.2975	0.3	4238.24	104.40087



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Cont Calib Blank (CCB) 5/8/2013, 4:20:02 AM Rack 3, Tube 14

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2696	0.1653	-0.1399u
Al 308.215	-1.8288u	-1.7877u	-0.9499u
As 188.980	-3.9661u	2.4363	0.2994
B 249.678	6.8673	6.5800	5.9792
Ba 389.178	0.0336	-0.8578u	0.2779
Be 313.042	-0.0018u	-0.0033u	0.0022
Ca 370.602	-3.945u	-1.631u	-2.377u
Cd 226.502	-0.0304u	-0.1807u	-0.0751u
Co 228.615	0.1444	0.2744	0.5423
Cr 267.716	-0.2136u	-0.1438u	-0.1418u
Cu 324.754	-0.1362u	0.3400	0.3534
Fe 271.441	4.3672	-2.6361u	-3.9752u
K 766.491	-2.1826u	-1.0715u	-1.8047u
Mg 279.078	-1.1451u	1.3613	0.9069
Mn 257.610	-0.1200u	-0.0974u	-0.0565u
Mo 202.032	0.4157	0.1513	-0.1292u
Na 330.237	-150.654u	-286.950u	-138.560u
Ni 231.604	0.9294	-0.0166u	0.2997
Pb 220.353	0.4128	3.0740	1.4348
Sb 206.834	5.1622	8.2607	2.5360
Se 196.026	-1.7103u	-1.1126u	-1.3709u
Sn 189.925	0.6561	0.9769	-0.4192u
Sr 216.596	-0.0799u	-0.1731u	0.0648
Ti 334.941	0.0214	0.0059	0.0776
Tl 190.794	-0.0882u	0.5057	1.0887
V 292.401	0.0282	0.0180	-0.5185u
Zn 206.200	0.6596	0.2610	1.1741

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0983	ppb	0.2128	216.4	-13.0429	0.09834
Al 308.215	-1.5222	ppb	0.4960	32.6	65.2709	-1.52216
As 188.980	-0.4102	ppb	3.2596	794.7	-6.9240	-0.41016
B 249.678	6.4755	ppb	0.4531	7.0	234.695	6.47550
Ba 389.178	-0.1821	ppb	0.5978	328.4	1.3120	-0.18206
Be 313.042	-0.0010	ppb	0.0028	296.2	-378.838	-0.00095
Ca 370.602	-2.651	ppb	1.181	44.5	-0.8613	-2.65106
Cd 226.502	-0.0954	ppb	0.0772	80.9	33.3187	-0.09541
Co 228.615	0.3204	ppb	0.2029	63.3	11.8245	0.32040
Cr 267.716	-0.1664	ppb	0.0409	24.6	8.6865	-0.16638
Cu 324.754	0.1857	ppb	0.2789	150.1	271.926	0.18574
Fe 271.441	-0.7480	ppb	4.4802	598.9	106.402	-0.74803
K 766.491	-1.6863	ppb	0.5649	33.5	305.589	-1.68625
Mg 279.078	0.3744	ppb	1.3354	356.7	40.0396	0.37436
Mn 257.610	-0.0913	ppb	0.0322	35.2	49.4292	-0.09131
Mo 202.032	0.1460	ppb	0.2725	186.7	18.0725	0.14596
Na 330.237	-192.054	ppb	82.4037	42.9	58.4827	-192.05443
Ni 231.604	0.4042	ppb	0.4816	119.1	-4.5884	0.40418
Pb 220.353	1.6405	ppb	1.3425	81.8	35.0514	1.64052
Sb 206.834	5.3196	ppb	2.8656	53.9	10.1898	5.31961
Se 196.026	-1.3979	ppb	0.2997	21.4	10.9893	-1.39794
Sn 189.925	0.4046	ppb	0.7312	180.7	-12.0735	0.40459
Sr 216.596	-0.0627	ppb	0.1199	191.2	19.4561	-0.06271
Ti 334.941	0.0350	ppb	0.0377	107.9	-30.9698	0.03497
Tl 190.794	0.5021	ppb	0.5884	117.2	-15.1289	0.50207
V 292.401	-0.1574	ppb	0.3128	198.6	-13.2868	-0.15744
Zn 206.200	0.6982	ppb	0.4578	65.6	30.2289	0.69823

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**640-43377-a-3-aPDS (Samp) 5/8/2013, 4:25:28 AM Rack 3, Tube 15****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.2003	49.1552	48.9915
Al 308.215	1959.80	1959.50	1963.24
As 188.980	2203.81	2193.55	2184.06
B 249.678	1057.12	1061.78	1066.26
Ba 389.178	2130.79	2125.72	2126.39
Be 313.042	51.9663	51.8206	51.8082
Ca 370.602	23159	23144	23126
Cd 226.502	52.6510	52.6290	52.8105
Co 228.615	530.853	531.090	528.583
Cr 267.716	209.632	208.872	208.603
Cu 324.754	258.600	258.810	258.637
Fe 271.441	2163.92	2152.57	2156.95
K 766.491	9101.36	9050.10	9028.55
Mg 279.078	13175.9	13231.2	13209.2
Mn 257.610	696.826	695.082	694.948
Mo 202.032	512.220	513.052	513.561
Na 330.237	143078x	142449x	142923x
Ni 231.604	514.929	521.244	520.917
Pb 220.353	499.513	503.290	502.336
Sb 206.834	497.954	500.389	493.428
Se 196.026	2023.65	2052.48	2039.06
Sn 189.925	1036.83	1029.26	1031.87
Sr 216.596	1720.69	1717.06	1716.92
Ti 334.941	1007.55	1004.98	1004.48
Tl 190.794	2072.89	2066.11	2057.51
V 292.401	500.535	498.993	498.550
Zn 206.200	534.623	542.595	531.450

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.1156b	ppb	0.1099	0.2	3873.48
Al 308.215	1960.85b	ppb	2.0791	0.1	9219.50
As 188.980	2193.81b	ppb	9.8745	0.5	1044.43
B 249.678	1061.72b	ppb	4.5700	0.4	14503.7
Ba 389.178	2127.63b	ppb	2.7517	0.1	49479.7
Be 313.042	51.8650b	ppb	0.0879	0.2	98006.1
Ca 370.602	23143b	ppb	16.48	0.1	74396
Cd 226.502	52.6968b	ppb	0.0991	0.2	2229.56
Co 228.615	530.175b	ppb	1.3840	0.3	7182.62
Cr 267.716	209.035b	ppb	0.5339	0.3	11063.5
Cu 324.754	258.682b	ppb	0.1124	0.0	12477.5
Fe 271.441	2157.81b	ppb	5.7271	0.3	4227.80
K 766.491	9060.00b	ppb	37.4008	0.4	349540
Mg 279.078	13205.4b	ppb	27.8510	0.2	30797.2
Mn 257.610	695.619b	ppb	1.0476	0.2	186168
Mo 202.032	512.944b	ppb	0.6770	0.1	4208.97
Na 330.237	142817xb	ppb	327.949	0.2	7844.78
Ni 231.604	519.030b	ppb	3.5555	0.7	1604.79
Pb 220.353	501.713b	ppb	1.9644	0.4	1073.28
Sb 206.834	497.257b	ppb	3.5323	0.7	612.090
Se 196.026	2038.40b	ppb	14.4288	0.7	1139.41
Sn 189.925	1032.65b	ppb	3.8488	0.4	1035.53
Sr 216.596	1718.22b	ppb	2.1348	0.1	22090.7
Ti 334.941	1005.67b	ppb	1.6450	0.2	309074
Tl 190.794	2065.50b	ppb	7.7096	0.4	2277.27
V 292.401	499.359b	ppb	1.0417	0.2	14518.3
Zn 206.200	536.223b	ppb	5.7421	0.1	872.865

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640-43377-a-3-b ms (Samp) 5/8/2013, 4:30:54 AM Rack 3, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.6876	50.7313	50.6538
Al 308.215	4932.59	4967.20	4962.23
As 188.980	113.237	106.994	108.434
B 249.678	265.088	265.020	264.235
Ba 389.178	144.472	145.302	144.599
Be 313.042	52.6732	52.5394	52.5611
Ca 370.602	21902	21959	21959
Cd 226.502	52.7430	52.8895	52.9440
Co 228.615	52.8184	53.3909	53.9495
Cr 267.716	104.735	104.764	104.674
Cu 324.754	104.485	105.294	105.003
Fe 271.441	6002.19	6001.11	6013.60
K 766.491	8685.56	8638.75	8599.16
Mg 279.078	12624.2	12621.2	12612.1
Mn 257.610	682.422	682.195	681.686
Mo 202.032	99.7937	100.126	100.179
Na 330.237	133956x	133729x	133583x
Ni 231.604	103.487	104.407	102.103
Pb 220.353	51.5012	54.2825	51.6338
Sb 206.834	52.0210	52.8039	50.5028
Se 196.026	104.538	107.231	93.2972
Sn 189.925	196.045	201.469	198.050
Sr 216.596	1222.04	1223.54	1223.82
Ti 334.941	99.1040	99.0589	98.7637
Tl 190.794	42.3965	39.3792	33.6594
V 292.401	100.611	100.261	100.198
Zn 206.200	111.977	110.570	111.535

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.6909b	ppb	0.0389	0.1	4022.67
Al 308.215	4954.01b	ppb	18.7123	0.4	23069.0
As 188.980	109.555b	ppb	3.2691	3.0	45.8403
B 249.678	264.781b	ppb	0.4739	0.2	3720.14
Ba 389.178	144.791b	ppb	0.4472	0.3	3411.94
Be 313.042	52.5912b	ppb	0.0718	0.1	99467.8
Ca 370.602	21940b	ppb	32.73	0.1	70046
Cd 226.502	52.8588b	ppb	0.1040	0.2	2250.47
Co 228.615	53.3863b	ppb	0.5655	1.1	728.038
Cr 267.716	104.724b	ppb	0.0464	0.0	5555.98
Cu 324.754	104.927b	ppb	0.4100	0.4	5217.10
Fe 271.441	6005.63b	ppb	6.9192	0.1	11321.6
K 766.491	8641.16b	ppb	43.2510	0.5	333398
Mg 279.078	12619.2b	ppb	6.2981	0.0	29431.2
Mn 257.610	682.101b	ppb	0.3770	0.1	182561
Mo 202.032	100.033b	ppb	0.2088	0.2	834.087
Na 330.237	133756xb	ppb	187.806	0.1	7360.00
Ni 231.604	103.332b	ppb	1.1598	1.1	314.953
Pb 220.353	52.4725b	ppb	1.5689	3.0	140.781
Sb 206.834	51.7759b	ppb	1.1700	2.3	67.8437
Se 196.026	101.689b	ppb	7.3911	7.3	68.2349
Sn 189.925	198.522b	ppb	2.7427	1.4	189.046
Sr 216.596	1223.14b	ppb	0.9556	0.1	15751.8
Ti 334.941	98.9755b	ppb	0.1849	0.2	30427.4
Tl 190.794	38.4784b	ppb	4.4377	11.5	25.6310
V 292.401	100.357b	ppb	0.2222	0.2	2904.92
Zn 206.200	111.361b	ppb	0.7195	0.6	189.981

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**640-43377-a-3-c msd (Samp) 5/8/2013, 4:36:21 AM Rack 3, Tube 17****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.9939	50.6751	50.7848
Al 308.215	5022.18	4998.23	5029.03
As 188.980	115.561	110.814	110.431
B 249.678	261.161	260.640	260.919
Ba 389.178	146.775	146.671	147.044
Be 313.042	53.3581	52.9879	53.1326
Ca 370.602	22449	22391	22458
Cd 226.502	53.5613	53.1470	53.4117
Co 228.615	54.0530	53.6362	53.6462
Cr 267.716	106.263	105.635	105.618
Cu 324.754	105.782	105.432	106.240
Fe 271.441	6100.45	6077.49	6083.21
K 766.491	8842.98	8778.57	8771.50
Mg 279.078	12898.4	12849.0	12888.6
Mn 257.610	693.888	691.390	691.896
Mo 202.032	100.654	100.506	99.7177
Na 330.237	138175x	137417x	137570x
Ni 231.604	104.482	104.607	105.055
Pb 220.353	51.2327	50.7545	53.2169
Sb 206.834	53.5220	48.2304	48.1557
Se 196.026	104.515	103.206	101.867
Sn 189.925	200.937	198.985	199.147
Sr 216.596	1253.84	1250.60	1254.49
Ti 334.941	100.412	99.9600	99.9744
Tl 190.794	39.2593	36.8824	42.3740
V 292.401	101.774	101.469	101.693
Zn 206.200	112.029	109.671	113.758

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.8180b	ppb	0.1620	0.3	4031.44
Al 308.215	5016.48b	ppb	16.1715	0.3	23358.9
As 188.980	112.269b	ppb	2.8574	2.5	47.1435
B 249.678	260.907b	ppb	0.2606	0.1	3667.63
Ba 389.178	146.830b	ppb	0.1929	0.1	3460.13
Be 313.042	53.1595b	ppb	0.1866	0.4	100547
Ca 370.602	22433b	ppb	36.53	0.2	71623
Cd 226.502	53.3733b	ppb	0.2098	0.4	2272.10
Co 228.615	53.7785b	ppb	0.2378	0.4	733.360
Cr 267.716	105.839b	ppb	0.3675	0.3	5614.98
Cu 324.754	105.818b	ppb	0.4051	0.4	5259.15
Fe 271.441	6087.05b	ppb	11.9521	0.2	11473.6
K 766.491	8797.68b	ppb	39.3893	0.4	339430
Mg 279.078	12878.6b	ppb	26.1230	0.2	30035.6
Mn 257.610	692.391b	ppb	1.3206	0.2	185314
Mo 202.032	100.293b	ppb	0.5033	0.5	836.204
Na 330.237	137721xb	ppb	400.749	0.3	7576.19
Ni 231.604	104.715b	ppb	0.3016	0.3	319.244
Pb 220.353	51.7347b	ppb	1.3057	2.5	139.250
Sb 206.834	49.9694b	ppb	3.0769	6.2	65.6300
Se 196.026	103.196b	ppb	1.3240	1.3	69.0721
Sn 189.925	199.690b	ppb	1.0830	0.5	190.233
Sr 216.596	1252.98b	ppb	2.0838	0.2	16135.7
Ti 334.941	100.115b	ppb	0.2570	0.3	30778.7
Tl 190.794	39.5052b	ppb	2.7540	7.0	26.7506
V 292.401	101.645b	ppb	0.1577	0.2	2942.52
Zn 206.200	111.819b	ppb	2.0517	1.8	181.735

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**680-89897-c-1-d (Samp)**      **5/8/2013, 4:41:47 AM**      **Rack 3, Tube 18****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4146u	-0.4115u	-0.1875u
Al 308.215	1247.85	1244.19	1249.61
As 188.980	6.8431	4.5787	2.6588
B 249.678	58.6417	57.9995	57.5059
Ba 389.178	20.8520	19.1106	20.5127
Be 313.042	-0.0114u	-0.0170u	-0.0086u
Ca 370.602	64736	64731	64828
Cd 226.502	-0.0858	0.1061	0.0676
Co 228.615	0.7111	0.8797	0.3812
Cr 267.716	2.2560	2.4242	2.2371
Cu 324.754	29.2671	29.4579	28.9877
Fe 271.441	1329.58	1318.09	1316.03
K 766.491	2339.74	2322.76	2320.74
Mg 279.078	26413.9	26434.3	26455.0
Mn 257.610	104.511	104.381	104.413
Mo 202.032	56.9067	56.6751	56.4858
Na 330.237	15808.9	15840.4	15848.6
Ni 231.604	59.0297	59.6581	59.7300
Pb 220.353	1.2986	1.7793	0.1721
Sb 206.834	6.8252	1.4546	5.2030
Se 196.026	5.5022	-2.1814u	3.4998
Sn 189.925	1.7822	-1.1987u	1.4884
Sr 216.596	87.1598	88.0042	87.4995
Ti 334.941	-0.0017	0.0849	0.0794
Tl 190.794	-1.6452u	0.6570	-1.5113u
V 292.401	0.2415u	0.5909	0.2107u
Zn 206.200	8.2481	7.0262	8.3450

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3379	ppb	0.1302	38.5	-52.6659
Al 308.215	1247.21	ppb	2.7665	0.2	5865.69
As 188.980	4.6935	ppb	2.0945	44.6	-4.0726
B 249.678	58.0490	ppb	0.5695	1.0	930.443
Ba 389.178	20.1585	ppb	0.9232	4.6	545.348
Be 313.042	-0.0123	ppb	0.0043	34.7	-389.396
Ca 370.602	64765	ppb	54.66	0.1	207992
Cd 226.502	0.0293	ppb	0.1015	346.4	43.6708
Co 228.615	0.6573	ppb	0.2536	38.6	14.1139
Cr 267.716	2.3058	ppb	0.1030	4.5	140.455
Cu 324.754	29.2376	ppb	0.2365	0.8	1644.47
Fe 271.441	1321.23	ppb	7.3001	0.6	2572.73
K 766.491	2327.75	ppb	10.4360	0.4	90081.3
Mg 279.078	26434.4	ppb	20.5434	0.1	61633.2
Mn 257.610	104.435	ppb	0.0678	0.1	28247.1
Mo 202.032	56.6892	ppb	0.2108	0.4	480.234
Na 330.237	15832.6	ppb	20.9267	0.1	931.907
Ni 231.604	59.4726	ppb	0.3852	0.6	178.737
Pb 220.353	1.0833	ppb	0.8249	76.1	33.8542
Sb 206.834	4.4943	ppb	2.7546	61.3	8.2803
Se 196.026	2.2736	ppb	3.9859	175.3	13.0578
Sn 189.925	0.6907	ppb	1.6428	237.9	-11.7428
Sr 216.596	87.5545	ppb	0.4249	0.5	1151.48
Ti 334.941	0.0542	ppb	0.0485	89.5	104.723
Tl 190.794	-0.8332	ppb	1.2922	155.1	-16.8858
V 292.401	0.3477	ppb	0.2112	60.7	-10.3612
Zn 206.200	7.8731	ppb	0.7351	9.3	312.0665

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89889-d-1-a (Samp) 5/8/2013, 4:47:25 AM Rack 3, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2595u	-0.3381u	-0.3598u
Al 308.215	14.7695	17.4316	18.2269
As 188.980	2.3095	1.4200	8.0931
B 249.678	54.3168	53.7011	53.8224
Ba 389.178	130.076	131.927	130.015
Be 313.042	-0.0171u	-0.0136u	-0.0101u
Ca 370.602	55110	55212	55270
Cd 226.502	-0.1631u	-0.1070u	-0.0153u
Co 228.615	0.1505	0.0099	0.3905
Cr 267.716	-0.2885u	-0.1892u	-0.4264u
Cu 324.754	0.3909	0.7317	-0.2361u
Fe 271.441	49.8864	45.3627	46.5579
K 766.491	1990.02	1978.99	1984.07
Mg 279.078	18649.7	18700.6	18668.0
Mn 257.610	19.7462	19.7375	19.7196
Mo 202.032	0.7216	1.0117	1.2990
Na 330.237	19747.8	19750.4	19612.8
Ni 231.604	2.8212	3.0207	3.1961
Pb 220.353	0.5690	0.5412	1.1360
Sb 206.834	3.3299	3.6149	-0.6086u
Se 196.026	-4.3045u	-6.8872u	5.4573
Sn 189.925	0.5248	-0.9999u	-1.1082u
Sr 216.596	385.931	387.137	386.909
Ti 334.941	-0.1583	-0.2273	-0.1524
Tl 190.794	-0.5521u	1.1447	1.6632
V 292.401	0.4588	0.6670	0.6815
Zn 206.200	3.2918	2.9791	3.5327

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3191	ppb	0.0528	16.5	-66.0434
Al 308.215	16.8093	ppb	1.8107	10.8	150.385
As 188.980	3.9409	ppb	3.6233	91.9	-4.4754
B 249.678	53.9468	ppb	0.3262	0.6	876.675
Ba 389.178	130.673	ppb	1.0867	0.8	3090.56
Be 313.042	-0.0136	ppb	0.0035	25.7	-386.705
Ca 370.602	55197	ppb	81.25	0.1	177353
Cd 226.502	-0.0951	ppb	0.0746	78.4	33.6424
Co 228.615	0.1836	ppb	0.1924	104.8	9.9551
Cr 267.716	-0.3013	ppb	0.1191	39.5	2.0481
Cu 324.754	0.2955	ppb	0.4909	166.1	277.126
Fe 271.441	47.2690	ppb	2.3442	5.0	195.964
K 766.491	1984.36	ppb	5.5188	0.3	76847.2
Mg 279.078	18672.7	ppb	25.7937	0.1	43549.0
Mn 257.610	19.7344	ppb	0.0136	0.1	5526.38
Mo 202.032	1.0108	ppb	0.2887	28.6	25.1379
Na 330.237	19703.7	ppb	78.7374	0.4	1143.55
Ni 231.604	3.0127	ppb	0.1876	6.2	3.5071
Pb 220.353	0.7487	ppb	0.3357	44.8	33.2021
Sb 206.834	2.1120	ppb	2.3605	111.8	6.2190
Se 196.026	-1.9114	ppb	6.5109	340.6	10.7113
Sn 189.925	-0.5278	ppb	0.9132	173.0	-12.9825
Sr 216.596	386.659	ppb	0.6405	0.2	5000.11
Ti 334.941	-0.1793	ppb	0.0417	23.2	-6.0534
Tl 190.794	0.7519	ppb	1.1587	154.1	-14.8874
V 292.401	0.6024	ppb	0.1246	20.7	8.9375
Zn 206.200	3.2679	ppb	0.2776	8.5	4.4238

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Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1213u	0.0796u	-0.3637u
Al 308.215	4.4220	4.5316	2.5051
As 188.980	4.1883	-8.8402u	5.8152
B 249.678	79.3401	80.8966	80.9255
Ba 389.178	136.374	137.150	137.121
Be 313.042	-0.0038	-0.0086u	-0.0050
Ca 370.602	52848	53024	53137
Cd 226.502	-0.0715u	0.0517	-0.0530
Co 228.615	0.3502	0.0082	-0.0837u
Cr 267.716	-0.1377u	-0.1961u	-0.3199u
Cu 324.754	1.5156	0.9270	2.0115
Fe 271.441	579.171	579.827	582.645
K 766.491	2036.22	2034.48	2041.06
Mg 279.078	17885.9	17932.0	17977.4
Mn 257.610	379.800	380.908	381.186
Mo 202.032	1.3849	1.5145	0.9979
Na 330.237	20482.9	20552.7	20564.4
Ni 231.604	0.3631	1.2154	1.6473
Pb 220.353	0.7966	0.0059	-2.7543u
Sb 206.834	-1.7283u	-1.9712u	1.6860
Se 196.026	-1.6238u	1.5190	-2.2248u
Sn 189.925	2.0748	1.1284	-0.9427u
Sr 216.596	381.831	382.060	382.760
Ti 334.941	-0.2479	-0.1823	-0.2126
Tl 190.794	-0.3421u	-0.6513u	0.2956u
V 292.401	-0.0155u	0.5652	0.6146
Zn 206.200	4.1791	4.1387	4.9444

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1352	ppb	0.2220	164.2	-49.1536
Al 308.215	3.8196	ppb	1.1397	29.8	90.1518
As 188.980	0.3878	ppb	8.0329	2071.4	-6.1965
B 249.678	80.3874	ppb	0.9071	1.1	1233.56
Ba 389.178	136.882	ppb	0.4399	0.3	3233.63
Be 313.042	-0.0058	ppb	0.0025	42.8	-372.865
Ca 370.602	53003	ppb	145.7	0.3	170269
Cd 226.502	-0.0243	ppb	0.0664	273.6	38.5384
Co 228.615	0.0916	ppb	0.2287	249.7	8.6729
Cr 267.716	-0.2179	ppb	0.0930	42.7	8.3266
Cu 324.754	1.4847	ppb	0.5429	36.6	333.393
Fe 271.441	580.548	ppb	1.8456	0.3	1190.80
K 766.491	2037.25	ppb	3.4114	0.2	78885.6
Mg 279.078	17931.8	ppb	45.7738	0.3	41816.2
Mn 257.610	380.631	ppb	0.7335	0.2	102001
Mo 202.032	1.2991	ppb	0.2688	20.7	27.4657
Na 330.237	20533.3	ppb	44.0531	0.2	1188.59
Ni 231.604	1.0752	ppb	0.6535	60.8	-2.4919
Pb 220.353	-0.6506	ppb	1.8642	286.5	30.3892
Sb 206.834	-0.6712	ppb	2.0450	304.7	2.7942
Se 196.026	-0.7765	ppb	2.0105	258.9	11.4422
Sn 189.925	0.7535	ppb	1.5433	204.8	-11.6831
Sr 216.596	382.217	ppb	0.4840	0.1	4943.06
Ti 334.941	-0.2143	ppb	0.0328	15.3	-20.4580
Tl 190.794	-0.2326	ppb	0.4829	207.6	-16.5985
V 292.401	0.3881	ppb	0.3504	90.3	2.5572
Zn 206.200	4.4207	ppb	0.4540	10.3	3573626

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680-89934-a-1-a (Samp) 5/8/2013, 4:58:18 AM Rack 3, Tube 21

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3516u	-0.1670u	-0.2641u
Al 308.215	622.191	626.378	620.745
As 188.980	-0.2640	-3.5707	-6.8736
B 249.678	10.3428	9.3322	10.2338
Ba 389.178	12.5855	13.6139	13.5385
Be 313.042	-0.1608u	-0.1451u	-0.1522u
Ca 370.602	671610	671578	668805
Cd 226.502	0.0991	0.0471	0.0815
Co 228.615	2.8839	2.9844	2.8348
Cr 267.716	3.2690	3.3617	3.4434
Cu 324.754	9.0235	9.4543	9.1422
Fe 271.441	29.8322	36.5882	32.0561
K 766.491	1903.65	1942.41	1906.58
Mg 279.078	11158.8	11215.1	11164.8
Mn 257.610	106.278	106.741	106.151
Mo 202.032	0.4813	0.7560	0.7851
Na 330.237	34149.1	34048.6	34028.0
Ni 231.604	16.5278	17.1858	17.0093
Pb 220.353	0.9825	-1.6939u	0.6416
Sb 206.834	-0.4857u	-4.1692u	-2.0990u
Se 196.026	32.4347	26.1309	38.2986
Sn 189.925	3.3640	0.2202	-1.7110u
Sr 216.596	753.767	757.465	750.886
Ti 334.941	0.8697	0.9141	0.8683
Tl 190.794	2.6380	-5.0939u	1.0076
V 292.401	0.0578	0.3295	0.1671
Zn 206.200	4.0514	4.4484	3.7611

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2609	ppb	0.0924	35.4	-80.2857
Al 308.215	623.105	ppb	2.9255	0.5	2963.69
As 188.980	-3.5694	ppb	3.3048	92.6	-4.0153
B 249.678	9.9696	ppb	0.5547	5.6	281.915
Ba 389.178	13.2460	ppb	0.5732	4.3	342.644
Be 313.042	-0.1527	ppb	0.0079	5.1	-435.383
Ca 370.602	670664	ppb	1610	0.2	2154845
Cd 226.502	0.0759	ppb	0.0265	34.8	40.4822
Co 228.615	2.9010	ppb	0.0763	2.6	46.7205
Cr 267.716	3.3580	ppb	0.0872	2.6	196.066
Cu 324.754	9.2067	ppb	0.2225	2.4	697.563
Fe 271.441	32.8255	ppb	3.4431	10.5	169.484
K 766.491	1917.54	ppb	21.5830	1.1	74272.1
Mg 279.078	11179.6	ppb	30.9400	0.3	26087.1
Mn 257.610	106.390	ppb	0.3104	0.3	28631.1
Mo 202.032	0.6742	ppb	0.1676	24.9	22.3880
Na 330.237	34075.2	ppb	64.8211	0.2	1927.36
Ni 231.604	16.9076	ppb	0.3406	2.0	46.6237
Pb 220.353	-0.0233	ppb	1.4568	6260.7	31.6322
Sb 206.834	-2.2513	ppb	1.8465	82.0	0.8763
Se 196.026	32.2881	ppb	6.0852	18.8	29.6509
Sn 189.925	0.6244	ppb	2.5615	410.2	-11.4896
Sr 216.596	754.039	ppb	3.2983	0.4	9800.40
Ti 334.941	0.8840	ppb	0.0260	2.9	282.444
Tl 190.794	-0.4828	ppb	4.0757	844.2	-16.3969
V 292.401	0.1848	ppb	0.1367	74.0	-3.7507
Zn 206.200	4.0870	ppb	0.3450	8.4	357.457



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680-89934-b-2-a (Samp) 5/8/2013, 5:03:44 AM Rack 3, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-8.0754u	-7.6016u	-7.8256u
Al 308.215	286057	286641	287068
As 188.980	151.312	160.785	156.256
B 249.678	-21.4982u	-22.9904u	-22.9696u
Ba 389.178	-31.2191	-30.9697	-31.8052
Be 313.042	2.2723	2.2868	2.2738
Ca 370.602	214116	215391	214358
Cd 226.502	4.0587	3.8611	3.5771
Co 228.615	572.991	572.840	563.882
Cr 267.716	42.7166	42.9889	42.7855
Cu 324.754	30668.3	31239.5	30879.1
Fe 271.441	569919	569892	570919
K 766.491	390.966	392.595	391.108
Mg 279.078	23619.5	23679.7	23670.7
Mn 257.610	2576.99	2577.22	2577.97
Mo 202.032	4.8063	4.6755	4.0031
Na 330.237	53778.7	54066.0	53836.9
Ni 231.604	277.398	279.801	284.541
Pb 220.353	23.9519	23.2100	24.4843
Sb 206.834	-2.9216	4.3456	0.4478
Se 196.026	69.9584	80.5083	70.4607
Sn 189.925	5.0351	6.9577	2.5831
Sr 216.596	746.101	749.657	749.126
Ti 334.941	1.9954	1.9869	2.0229
Tl 190.794	1.6303u	-9.0032u	-6.0537u
V 292.401	52.9586	52.4999	52.7286
Zn 206.200	211.481	216.819	213.500

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-7.8342	ppb	0.2370	3.0	-679.536
Al 308.215	286589	ppb	507.866	0.2	1329885
As 188.980	156.118	ppb	4.7381	3.0	64.9584
B 249.678	-22.4861	ppb	0.8556	3.8	-925.452
Ba 389.178	-31.3314	ppb	0.4289	1.4	149.964
Be 313.042	2.2776	ppb	0.0080	0.4	4033.04
Ca 370.602	214622	ppb	677.2	0.3	642864
Cd 226.502	3.8323	ppb	0.2421	6.3	2318.58
Co 228.615	569.904	ppb	5.2157	0.9	7687.03
Cr 267.716	42.8303	ppb	0.1416	0.3	2443.88
Cu 324.754	30929.0	ppb	288.810	0.9	1459682
Fe 271.441	570243	ppb	585.191	0.1	1064014
K 766.491	391.556	ppb	0.9021	0.2	15461.0
Mg 279.078	23656.6	ppb	32.4992	0.1	55137.7
Mn 257.610	2577.39	ppb	0.5130	0.0	691130
Mo 202.032	4.4950	ppb	0.4309	9.6	21.3183
Na 330.237	53893.9	ppb	151.846	0.3	2794.52
Ni 231.604	280.580	ppb	3.6348	1.3	878.901
Pb 220.353	23.8821	ppb	0.6400	2.7	88.2008
Sb 206.834	0.6239	ppb	3.6368	582.9	20.9350
Se 196.026	73.6424	ppb	5.9513	8.1	56.9426
Sn 189.925	4.8586	ppb	2.1926	45.1	-7.4385
Sr 216.596	748.295	ppb	1.9179	0.3	10015.6
Ti 334.941	2.0017	ppb	0.0188	0.9	772.731
Tl 190.794	-4.4755	ppb	5.4896	122.7	-56.9869
V 292.401	52.7291	ppb	0.2293	0.4	1531.17
Zn 206.200	213.933	ppb	2.6955	1.3	411.913

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89977-a-1-a (Samp) 5/8/2013, 5:09:11 AM Rack 3, Tube 23

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3314u	-0.2983u	-0.3332u
Al 308.215	20.5473	20.8273	32.0912
As 188.980	13.2047	6.0479	9.6287
B 249.678	87.9193	89.0825	89.4168
Ba 389.178	68.2045	68.2239	68.0522
Be 313.042	-0.0229u	-0.0343u	-0.0325u
Ca 370.602	74420	74513	74650
Cd 226.502	-0.1426u	-0.0836u	0.0058
Co 228.615	0.4818	0.1779	0.2649
Cr 267.716	0.1451	-0.0241u	0.2931
Cu 324.754	2.4315	3.0552	3.7438
Fe 271.441	90.7708	97.5848	121.487
K 766.491	6492.97	6518.15	6481.59
Mg 279.078	28605.4	28679.2	28664.7
Mn 257.610	10.7372	10.7924	10.8951
Mo 202.032	4.6771	4.2264	4.4891
Na 330.237	49220.9	49345.7	48722.0
Ni 231.604	1.6253	2.3452	1.9417
Pb 220.353	1.2958	3.1167	1.8635
Sb 206.834	0.1558	3.1970	3.1718
Se 196.026	0.3233	4.3652	-6.5996u
Sn 189.925	2.6711	0.7326	0.4202
Sr 216.596	446.817	448.166	448.287
Ti 334.941	0.0051	0.0197	0.0209
Tl 190.794	1.7099	0.6696	-3.3239u
V 292.401	0.1490	0.7751	0.3302
Zn 206.200	99.7593	101.245	101.317

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3210	ppb	0.0196	6.1	-69.4164
Al 308.215	24.4886	ppb	6.5855	26.9	186.402
As 188.980	9.6271	ppb	3.5784	37.2	-1.6243
B 249.678	88.8062	ppb	0.7861	0.9	1348.07
Ba 389.178	68.1602	ppb	0.0941	0.1	1664.31
Be 313.042	-0.0299	ppb	0.0062	20.6	-415.396
Ca 370.602	74528	ppb	115.7	0.2	239456
Cd 226.502	-0.0735	ppb	0.0747	101.7	34.7079
Co 228.615	0.3082	ppb	0.1565	50.8	11.5100
Cr 267.716	0.1380	ppb	0.1587	115.0	25.8109
Cu 324.754	3.0768	ppb	0.6564	21.3	408.462
Fe 271.441	103.281	ppb	16.1310	15.6	300.480
K 766.491	6497.57	ppb	18.7106	0.3	250785
Mg 279.078	28649.8	ppb	39.1118	0.1	66797.2
Mn 257.610	10.8082	ppb	0.0801	0.7	3234.06
Mo 202.032	4.4642	ppb	0.2264	5.1	53.3666
Na 330.237	49096.2	ppb	329.999	0.7	2745.80
Ni 231.604	1.9707	ppb	0.3609	18.3	0.2753
Pb 220.353	2.0920	ppb	0.9317	44.5	35.9867
Sb 206.834	2.1749	ppb	1.7486	80.4	6.2444
Se 196.026	-0.6370	ppb	5.5451	870.5	11.4142
Sn 189.925	1.2746	ppb	1.2194	95.7	-11.1307
Sr 216.596	447.757	ppb	0.8160	0.2	5788.21
Ti 334.941	0.0152	ppb	0.0088	57.8	100.460
Tl 190.794	-0.3148	ppb	2.6574	844.2	-16.0630
V 292.401	0.4181	ppb	0.3222	77.1	2.6463
Zn 206.200	100.774	ppb	0.8795	0.8	163.391

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

mb 680-275575/1-a (Samp) 5/8/2013, 5:14:37 AM Rack 3, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2457u	-0.2799u	-0.2445u
Al 308.215	127.894	129.636	131.413
As 188.980	0.2338	-3.4937u	5.6181
B 249.678	0.1891	-0.1219u	0.2537
Ba 389.178	-0.2719u	0.1620	-0.2494u
Be 313.042	-0.0093u	0.0023	0.0001
Ca 370.602	233.2	231.8	227.4
Cd 226.502	-0.1172u	-0.0550u	-0.0806u
Co 228.615	0.2014	-0.2164u	-0.0073u
Cr 267.716	0.8935	0.9409	0.9737
Cu 324.754	1.5570	1.7766	1.8003
Fe 271.441	35.5657	34.5971	29.6831
K 766.491	13.8650	13.5222	13.6493
Mg 279.078	788.255	785.748	800.501
Mn 257.610	1.0497	1.0220	1.0601
Mo 202.032	0.4136	0.4661	0.5718
Na 330.237	175.812	95.9528	-8.4435u
Ni 231.604	-0.6088u	-1.3493u	1.4197
Pb 220.353	-0.1932u	1.8846	-0.2964u
Sb 206.834	-0.4695u	0.6008	0.3656
Se 196.026	2.0728	0.5987	-3.7215u
Sn 189.925	9.8097	10.7610	10.7248
Sr 216.596	0.5442	0.3766	-0.0811u
Ti 334.941	0.5116	0.5380	0.4564
Tl 190.794	-2.9119u	-0.1911u	-1.9499u
V 292.401	-0.0421u	0.0774	-0.1801u
Zn 206.200	5.7012	5.1590	4.6629

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2567	ppb	0.0201	7.8	-41.7846
Al 308.215	129.647	ppb	1.7598	1.4	673.935
As 188.980	0.7861	ppb	4.5809	582.8	-6.3497
B 249.678	0.1069	ppb	0.2008	187.8	148.516
Ba 389.178	-0.1197	ppb	0.2442	204.0	4.8796
Be 313.042	-0.0023	ppb	0.0062	271.7	-381.341
Ca 370.602	230.8	ppb	3.017	1.3	746.6
Cd 226.502	-0.0843	ppb	0.0313	37.1	33.9178
Co 228.615	-0.0074	ppb	0.2089	2819.1	7.3962
Cr 267.716	0.9360	ppb	0.0403	4.3	66.9466
Cu 324.754	1.7113	ppb	0.1341	7.8	343.917
Fe 271.441	33.2820	ppb	3.1541	9.5	169.834
K 766.491	13.6788	ppb	0.1733	1.3	897.754
Mg 279.078	791.501	ppb	7.8940	1.0	1883.42
Mn 257.610	1.0439	ppb	0.0197	1.9	360.470
Mo 202.032	0.4838	ppb	0.0806	16.6	20.8326
Na 330.237	87.7737	ppb	92.3995	105.3	73.6900
Ni 231.604	-0.1795	ppb	1.4336	798.8	-6.3986
Pb 220.353	0.4650	ppb	1.2305	264.6	32.6100
Sb 206.834	0.1656	ppb	0.5624	339.6	3.8410
Se 196.026	-0.3500	ppb	3.0114	860.4	11.5695
Sn 189.925	10.4318	ppb	0.5391	5.2	-1.8976
Sr 216.596	0.2799	ppb	0.3237	115.6	23.9134
Ti 334.941	0.5020	ppb	0.0417	8.3	116.451
Tl 190.794	-1.6843	ppb	1.3797	81.9	-17.5611
V 292.401	-0.0483	ppb	0.1289	267.1	-10.1812
Zn 206.200	5.1744	ppb	0.5193	10.0	375.266

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Verif (CCV)                      5/8/2013, 5:20:04 AM                      Rack 3, Tube 25  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	466.686	469.486	472.928
Al 308.215	4691.05	4661.84	4704.27
As 188.980	487.409	484.304	467.463
B 249.678	487.118	487.063	486.347
Ba 389.178	4960.30	4916.45	4929.47
Be 313.042	498.961	494.446	497.847
Ca 370.602	4859	4824	4863
Cd 226.502	493.438	489.467	492.005
Co 228.615	503.699	502.190	503.284
Cr 267.716	4990.07	4961.03	4979.60
Cu 324.754	4956.71	4924.08	4857.57
Fe 271.441	4804.55	4782.50	4782.41
K 766.491	9902.51	9861.86	9819.12
Mg 279.078	4817.19	4773.16	4798.51
Mn 257.610	5110.50	5060.80	5074.58
Mo 202.032	478.240	473.071	479.555
Na 330.237	6985.01	6918.05	6773.44
Ni 231.604	2493.29	2475.99	2490.54
Pb 220.353	474.411	470.681	472.563
Sb 206.834	929.270	931.606	937.251
Se 196.026	4725.70	4728.29	4708.79
Sn 189.925	4834.46	4770.62	4857.33
Sr 216.596	2439.80	2421.66	2432.91
Ti 334.941	480.100	475.541	476.928
Tl 190.794	4837.12	4814.85	4813.09
V 292.401	4777.03	4746.79	4750.30
Zn 206.200	2521.23	2498.83	2518.34

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	469.700	ppb	3.1265	0.7	37905.3	93.94009
Al 308.215	4685.72	ppb	21.7069	0.5	21797.7	93.71438
As 188.980	479.725	ppb	10.7326	2.2	223.020	95.94505
B 249.678	486.843	ppb	0.4297	0.1	6725.03	19.47371Q
Ba 389.178	4935.41	ppb	22.5177	0.5	114705	98.70812
Be 313.042	497.085	ppb	2.3519	0.5	943357	99.41694
Ca 370.602	4849	ppb	21.32	0.4	15467	96.97324
Cd 226.502	491.637	ppb	2.0106	0.4	20438.2	98.32733
Co 228.615	503.057	ppb	0.7796	0.2	6816.52	100.61147
Cr 267.716	4976.90	ppb	14.7116	0.3	262911	99.53804
Cu 324.754	4912.79	ppb	50.5268	1.0	232022	98.25574
Fe 271.441	4789.82	ppb	12.7562	0.3	9177.17	95.79636
K 766.491	9861.17	ppb	41.6997	0.4	380416	98.61166
Mg 279.078	4796.29	ppb	22.1035	0.5	11124.7	95.92574
Mn 257.610	5081.96	ppb	25.6583	0.5	1358719	101.63914
Mo 202.032	476.955	ppb	3.4274	0.7	3905.55	95.39104
Na 330.237	6892.17	ppb	108.133	1.6	419.255	91.89555
Ni 231.604	2486.61	ppb	9.2946	0.4	7710.36	99.46429
Pb 220.353	472.552	ppb	1.8649	0.4	1014.33	94.51034
Sb 206.834	932.709	ppb	4.1030	0.4	1213.35	93.27091
Se 196.026	4720.93	ppb	10.5912	0.2	2624.35	94.41855
Sn 189.925	4820.81	ppb	44.9419	0.9	4879.70	96.41611
Sr 216.596	2431.46	ppb	9.1607	0.4	31225.3	97.25826
Ti 334.941	477.523	ppb	2.3372	0.5	146734	95.50459
Tl 190.794	4821.69	ppb	13.3958	0.3	5333.27	96.43379
V 292.401	4758.04	ppb	16.5377	0.3	139007	95.16079
Zn 206.200	2512.80	ppb	12.1851	0.5	4080.31	100.51199

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Blank (CCB) 5/8/2013, 5:25:30 AM Rack 3, Tube 26

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2690	-0.0888u	-0.1718u
Al 308.215	-5.8046u	-2.8059u	-1.5878u
As 188.980	0.3580	-0.6941u	3.8143
B 249.678	5.3533	5.8026	4.4350
Ba 389.178	-0.2417u	0.0587	0.5860
Be 313.042	-0.0017u	0.0131	-0.0057u
Ca 370.602	-3.343u	-0.2112u	-2.701u
Cd 226.502	-0.1292u	-0.1634u	0.1024
Co 228.615	0.0890	-0.2655u	0.1933
Cr 267.716	-0.3825u	-0.3622u	-0.1070u
Cu 324.754	-0.7642u	-0.3133u	0.2292
Fe 271.441	6.3174	9.8087	7.0429
K 766.491	-2.1196u	-1.6096u	-2.2666u
Mg 279.078	-1.6218u	1.6507	-1.8074u
Mn 257.610	-0.0959u	-0.1175u	-0.0823u
Mo 202.032	0.0640	-0.2196u	-0.1781u
Na 330.237	-118.515u	-98.4580u	-66.6006u
Ni 231.604	0.2802	-1.2103u	0.3772
Pb 220.353	-0.5535u	-2.1825u	1.8852
Sb 206.834	5.2034	4.1241	5.4599
Se 196.026	-0.6079u	-0.1303u	-1.6490u
Sn 189.925	1.8022	0.9104	2.1612
Sr 216.596	-0.3670u	-0.2216u	0.6696
Ti 334.941	0.0226	-0.0020u	0.0416
Tl 190.794	3.6040	4.0406	-1.8508u
V 292.401	-0.0069u	0.1053	-0.0935u
Zn 206.200	1.6785	2.4359	2.6598

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0028	ppb	0.2342	8304.7	-20.7620	0.00282
Al 308.215	-3.3994	ppb	2.1702	63.8	56.5170	-3.39943
As 188.980	1.1594	ppb	2.3586	203.4	-6.1720	1.15939
B 249.678	5.1970	ppb	0.6971	13.4	217.394	5.19698
Ba 389.178	0.1343	ppb	0.4190	311.9	8.6690	0.13434
Be 313.042	0.0019	ppb	0.0099	525.7	-373.423	0.00188
Ca 370.602	-2.085	ppb	1.654	79.3	0.3451	-2.08505
Cd 226.502	-0.0634	ppb	0.1446	228.1	34.6730	-0.06340
Co 228.615	0.0056	ppb	0.2405	4280.9	7.5832	0.00562
Cr 267.716	-0.2839	ppb	0.1535	54.1	2.4800	-0.28392
Cu 324.754	-0.2828	ppb	0.4974	175.9	249.811	-0.28279
Fe 271.441	7.7230	ppb	1.8423	23.9	122.153	7.72297
K 766.491	-1.9986	ppb	0.3448	17.3	293.551	-1.99861
Mg 279.078	-0.5928	ppb	1.9452	328.1	37.7883	-0.59283
Mn 257.610	-0.0986	ppb	0.0177	18.0	47.4994	-0.09858
Mo 202.032	-0.1112	ppb	0.1532	137.7	15.9694	-0.11122
Na 330.237	-94.5246	ppb	26.1797	27.7	63.7853	-94.52455
Ni 231.604	-0.1843	ppb	0.8899	482.8	-6.4144	-0.18432
Pb 220.353	-0.2836	ppb	2.0473	721.9	31.0514	-0.28361
Sb 206.834	4.9291	ppb	0.7089	14.4	9.7136	4.92911
Se 196.026	-0.7957	ppb	0.7766	97.6	11.3225	-0.79570
Sn 189.925	1.6246	ppb	0.6440	39.6	-10.8354	1.62458
Sr 216.596	0.0270	ppb	0.5612	2078.1	20.6581	0.02701
Ti 334.941	0.0207	ppb	0.0219	105.5	-35.3691	0.02071
Tl 190.794	1.9313	ppb	3.2826	170.0	-13.5420	1.93127
V 292.401	0.0016	ppb	0.0997	6072.5	-8.5384	0.00164
Zn 206.200	2.2581	ppb	0.5143	22.8	37.7730	2.25805

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

ics 680-275575/2-a (Samp)      5/8/2013, 5:30:57 AM      Rack 3, Tube 27  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	49.1698	49.2608	48.9664
Al 308.215	4816.97	4802.98	4854.23
As 188.980	105.887	98.9942	105.249
B 249.678	187.203	187.868	188.443
Ba 389.178	104.428	101.506	103.582
Be 313.042	52.1857	51.9505	52.1954
Ca 370.602	4939	4906	4954
Cd 226.502	51.9626	51.9944	52.3566
Co 228.615	52.3137	52.6487	53.1735
Cr 267.716	105.548	104.723	104.943
Cu 324.754	102.900	101.511	102.429
Fe 271.441	4920.92	4919.02	4939.93
K 766.491	5069.86	5032.92	5033.90
Mg 279.078	5060.88	5039.79	5078.93
Mn 257.610	536.608	535.309	537.310
Mo 202.032	98.6030	98.1890	98.4584
Na 330.237	4617.81	4648.96	4455.65
Ni 231.604	101.789	102.725	103.709
Pb 220.353	48.7510	49.5598	48.9616
Sb 206.834	50.8775	47.5314	50.0040
Se 196.026	94.3198	95.8537	94.4693
Sn 189.925	210.311	205.791	208.617
Sr 216.596	101.061	100.897	101.607
Ti 334.941	99.6113	99.0489	99.1933
Tl 190.794	38.3793	39.1173	40.3267
V 292.401	99.8803	99.3095	99.4321
Zn 206.200	108.929	106.235	107.028

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.1324	ppb	0.1508	0.3	3951.01
Al 308.215	4824.73	ppb	26.4919	0.5	22469.0
As 188.980	103.377	ppb	3.8087	3.7	42.7769
B 249.678	187.838	ppb	0.6203	0.3	2680.96
Ba 389.178	103.172	ppb	1.5036	1.5	2423.56
Be 313.042	52.1105	ppb	0.1387	0.3	98564.9
Ca 370.602	4933	ppb	24.76	0.5	15487
Cd 226.502	52.1045	ppb	0.2189	0.4	2215.86
Co 228.615	52.7120	ppb	0.4334	0.8	719.040
Cr 267.716	105.071	ppb	0.4272	0.4	5570.83
Cu 324.754	102.280	ppb	0.7062	0.7	5091.84
Fe 271.441	4926.63	ppb	11.5626	0.2	9308.57
K 766.491	5045.56	ppb	21.0524	0.4	194825
Mg 279.078	5059.87	ppb	19.5893	0.4	11819.3
Mn 257.610	536.409	ppb	1.0154	0.2	143538
Mo 202.032	98.4168	ppb	0.2101	0.2	820.939
Na 330.237	4574.14	ppb	103.788	2.3	314.940
Ni 231.604	102.741	ppb	0.9601	0.9	313.091
Pb 220.353	49.0908	ppb	0.4196	0.9	133.710
Sb 206.834	49.4710	ppb	1.7356	3.5	64.9996
Se 196.026	94.8809	ppb	0.8457	0.9	64.4220
Sn 189.925	208.239	ppb	2.2834	1.1	198.843
Sr 216.596	101.188	ppb	0.3717	0.4	1318.99
Ti 334.941	99.2845	ppb	0.2921	0.3	30495.7
Tl 190.794	39.2744	ppb	0.9832	2.5	26.8145
V 292.401	99.5406	ppb	0.3005	0.3	2882.37
Zn 206.200	107.397	ppb	1.3844	1.3	174.397

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89896-b-4-a (Samp) 5/8/2013, 5:36:24 AM Rack 3, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4497u	-0.8373u	-0.4442u
Al 308.215	85367.5	84801.6	85064.4
As 188.980	180.525	175.108	174.857
B 249.678	22.1549u	21.3147u	22.7203u
Ba 389.178	1674.87	1668.69	1669.21
Be 313.042	9.6073	9.5354	9.5697
Ca 370.602	178255	177500	178042
Cd 226.502	6.7952	6.1210	6.0880
Co 228.615	106.713	107.778	107.545
Cr 267.716	338.505	338.178	338.318
Cu 324.754	322.719	318.146	321.702
Fe 271.441	257319	256162	256832
K 766.491	9849.23	9776.90	9790.49
Mg 279.078	70243.0	69923.8	70204.4
Mn 257.610	10734.2	10708.9	10735.3
Mo 202.032	15.3754	14.8682	16.1220
Na 330.237	690.302u	816.767u	859.019u
Ni 231.604	175.762	173.354	174.360
Pb 220.353	1008.83	1001.82	1011.77
Sb 206.834	14.4337	11.9057	14.1769
Se 196.026	5.3720	-1.4941	3.8958
Sn 189.925	49.6809	52.7217	49.1118
Sr 216.596	444.072	442.651	444.891
Ti 334.941	887.624	883.843	881.762
Tl 190.794	16.3638u	16.8601u	13.2980u
V 292.401	323.558	323.073	323.187
Zn 206.200	2552.99	2544.95	2567.16

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5771	ppb	0.2254	39.1	-36.4110
Al 308.215	85077.8	ppb	283.188	0.3	394843
As 188.980	176.830	ppb	3.2024	1.8	77.1359
B 249.678	22.0633	ppb	0.7072	3.2	99.7448
Ba 389.178	1670.92	ppb	3.4247	0.2	39376.0
Be 313.042	9.5708	ppb	0.0360	0.4	17843.0
Ca 370.602	177933	ppb	389.3	0.2	551117
Cd 226.502	6.3347	ppb	0.3991	6.3	1255.97
Co 228.615	107.346	ppb	0.5599	0.5	1475.56
Cr 267.716	338.333	ppb	0.1643	0.0	18007.9
Cu 324.754	320.856	ppb	2.4008	0.7	15470.4
Fe 271.441	256771	ppb	580.595	0.2	479145
K 766.491	9805.54	ppb	38.4430	0.4	378273
Mg 279.078	70123.8	ppb	174.217	0.2	163272
Mn 257.610	10726.1	ppb	14.9515	0.1	2869012
Mo 202.032	15.4552	ppb	0.6307	4.1	128.048
Na 330.237	788.696	ppb	87.7916	11.1	-10.9948
Ni 231.604	174.492	ppb	1.2096	0.7	541.940
Pb 220.353	1007.47	ppb	5.1120	0.5	2130.54
Sb 206.834	13.5054	ppb	1.3914	10.3	31.4781
Se 196.026	2.5912	ppb	3.6142	139.5	17.8416
Sn 189.925	50.5048	ppb	1.9408	3.8	38.8524
Sr 216.596	443.871	ppb	1.1339	0.3	5904.65
Ti 334.941	884.410	ppb	2.9719	0.3	272137
Tl 190.794	15.5073	ppb	1.9293	12.4	-30.3064
V 292.401	323.273	ppb	0.2535	0.1	9454.80
Zn 206.200	2555.04	ppb	11.2462	0.4	4192.32

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**680-89896-b-4-aSD^5 (Samp) 5/8/2013, 5:41:50 AM Rack 3, Tube 29****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5171u	-0.0175	-0.3304u
Al 308.215	17319.3	16971.7	16885.6
As 188.980	42.9658	43.2982	43.6939
B 249.678	4.3429u	3.5062u	3.6357u
Ba 389.178	347.266	342.751	339.367
Be 313.042	1.9895	1.9587	1.9328
Ca 370.602	36998	36490	36333
Cd 226.502	1.1785	1.0462	0.7534
Co 228.615	22.5617	22.9710	21.8877
Cr 267.716	70.9599	69.9993	69.0430
Cu 324.754	62.3932	62.5159	63.8453
Fe 271.441	53847.0	52876.9	52549.6
K 766.491	1760.74	1731.85	1718.74
Mg 279.078	14459.7	14277.7	14182.7
Mn 257.610	2285.61	2243.96	2231.60
Mo 202.032	3.3779	2.8812	3.5148
Na 330.237	132.397u	82.7281u	100.436u
Ni 231.604	37.0759	36.8783	36.2420
Pb 220.353	211.873	208.303	204.307
Sb 206.834	4.8762	5.4272	1.9391
Se 196.026	-0.6265	2.4933	-1.0591
Sn 189.925	10.1615	12.2085	12.9301
Sr 216.596	92.8362	92.6379	91.4103
Ti 334.941	184.412	181.649	179.519
Tl 190.794	8.1926	3.4285u	6.2246
V 292.401	68.0965	66.1962	66.3744
Zn 206.200	540.675	540.571	530.761

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2884	ppb	0.2524	87.5	-37.6980
Al 308.215	17058.8	ppb	229.630	1.3	79227.2
As 188.980	43.3193	ppb	0.3645	0.8	13.8495
B 249.678	3.8283	ppb	0.4503	11.8	127.435
Ba 389.178	343.128	ppb	3.9627	1.2	8090.59
Be 313.042	1.9603	ppb	0.0284	1.4	3354.86
Ca 370.602	36607	ppb	347.5	0.9	113372
Cd 226.502	0.9927	ppb	0.2175	21.9	276.006
Co 228.615	22.4735	ppb	0.5470	2.4	314.776
Cr 267.716	70.0007	ppb	0.9584	1.4	3739.82
Cu 324.754	62.9182	ppb	0.8053	1.3	3245.95
Fe 271.441	53091.2	ppb	674.699	1.3	99155.8
K 766.491	1737.11	ppb	21.4866	1.2	67318.1
Mg 279.078	14306.7	ppb	140.786	1.0	33341.0
Mn 257.610	2253.72	ppb	28.2976	1.3	602875
Mo 202.032	3.2580	ppb	0.3334	10.2	40.3761
Na 330.237	105.187	ppb	25.1728	23.9	49.2221
Ni 231.604	36.7321	ppb	0.4357	1.2	109.446
Pb 220.353	208.161	ppb	3.7849	1.8	465.308
Sb 206.834	4.0808	ppb	1.8751	45.9	10.9789
Se 196.026	0.2692	ppb	1.9382	719.9	12.8818
Sn 189.925	11.7667	ppb	1.4362	12.2	-0.5259
Sr 216.596	92.2948	ppb	0.7724	0.8	1243.59
Ti 334.941	181.860	ppb	2.4533	1.3	55925.4
Tl 190.794	5.9486	ppb	2.3940	40.2	-15.7209
V 292.401	66.8890	ppb	1.0494	1.6	1949.46
Zn 206.200	537.336	ppb	5.6942	1.1	889.843



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**680-89896-b-4-aPDS (Samp) 5/8/2013, 5:47:17 AM Rack 3, Tube 30****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	47.6477	47.2877	46.9495
Al 308.215	85151.5	85355.0	85718.0
As 188.980	2216.52	2234.45	2245.10
B 249.678	971.445	980.873	984.984
Ba 389.178	3565.03	3563.53	3569.22
Be 313.042	57.8594	57.8163	57.8584
Ca 370.602	178656	179249	180379
Cd 226.502	53.5868	54.1145	54.1250
Co 228.615	584.581	590.102	590.353
Cr 267.716	526.371	528.475	527.319
Cu 324.754	568.584	562.153	564.741
Fe 271.441	252147	252264	252823
K 766.491	15122.7	15086.5	15147.0
Mg 279.078	73489.5	73575.0	73721.5
Mn 257.610	10946.3	10970.7	11017.8
Mo 202.032	494.159	494.984	497.076
Na 330.237	5775.83	5797.04	5824.36
Ni 231.604	654.137	648.666	646.272
Pb 220.353	1427.49	1440.55	1443.50
Sb 206.834	482.843	485.029	483.301
Se 196.026	1907.25	1935.00	1929.62
Sn 189.925	992.838	997.415	995.395
Sr 216.596	907.275	912.314	912.214
Ti 334.941	1771.55	1781.14	1775.66
Tl 190.794	1862.34	1873.72	1875.50
V 292.401	786.883	789.545	788.139
Zn 206.200	2956.48	2983.83	2984.37

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.2950	ppb	0.3491	0.7	3816.92
Al 308.215	85408.2	ppb	286.959	0.3	396421
As 188.980	2232.02	ppb	14.4417	0.6	1061.79
B 249.678	979.100	ppb	6.9412	0.7	13049.2
Ba 389.178	3565.92	ppb	2.9481	0.1	83410.4
Be 313.042	57.8447	ppb	0.0246	0.0	109422
Ca 370.602	179428	ppb	875.2	0.5	556450
Cd 226.502	53.9421	ppb	0.3077	0.6	3213.90
Co 228.615	588.345	ppb	3.2625	0.6	7984.23
Cr 267.716	527.388	ppb	1.0535	0.2	27992.1
Cu 324.754	565.159	ppb	3.2356	0.6	27004.0
Fe 271.441	252411	ppb	361.193	0.1	471097
K 766.491	15118.7	ppb	30.4317	0.2	583041
Mg 279.078	73595.3	ppb	117.333	0.2	171355
Mn 257.610	10978.2	ppb	36.3523	0.3	2936431
Mo 202.032	495.406	ppb	1.5035	0.3	4050.86
Na 330.237	5799.07	ppb	24.3284	0.4	253.205
Ni 231.604	649.691	ppb	4.0315	0.6	2016.40
Pb 220.353	1437.18	ppb	8.5190	0.6	3022.46
Sb 206.834	483.724	ppb	1.1528	0.2	606.655
Se 196.026	1923.96	ppb	14.7162	0.8	1080.60
Sn 189.925	995.216	ppb	2.2936	0.2	997.554
Sr 216.596	910.601	ppb	2.8808	0.3	11874.4
Ti 334.941	1776.12	ppb	4.8112	0.3	546191
Tl 190.794	1870.52	ppb	7.1393	0.4	2029.94
V 292.401	788.189	ppb	1.3319	0.2	22980.0
Zn 206.200	2974.89	ppb	15.9475	0.5	4875.72

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**680-89896-b-4-b ms (Samp)**      **5/8/2013, 5:52:43 AM**      **Rack 3, Tube 31**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	56.9217	56.5445	56.2386
Al 308.215	118113	118193	118206
As 188.980	378.643	372.938	371.107
B 249.678	162.247	161.768	162.092
Ba 389.178	2066.77	2069.37	2067.30
Be 313.042	62.9568	62.8969	62.8594
Ca 370.602	134977	135019	135099
Cd 226.502	52.6836	53.3692	53.1160
Co 228.615	245.613	247.451	248.974
Cr 267.716	574.072	574.440	575.347
Cu 324.754	433.173	431.238	434.185
Fe 271.441	442912	443359	444916
K 766.491	14072.5	14078.2	14091.9
Mg 279.078	59994.5	60020.5	60206.6
Mn 257.610	24092.8	24169.5	24114.2
Mo 202.032	127.374	126.904	127.648
Na 330.237	5485.46	5715.05	5521.95
Ni 231.604	285.652	287.804	288.734
Pb 220.353	1238.79	1241.61	1251.81
Sb 206.834	39.4462	41.4131	40.1243
Se 196.026	82.4974	83.8770	83.3141
Sn 189.925	236.652	237.985	239.199
Sr 216.596	427.878	431.068	431.024
Ti 334.941	990.632	991.251	987.806
Tl 190.794	78.6846	73.4605	76.1004
V 292.401	661.232	660.811	660.436
Zn 206.200	3688.91	3680.01	3710.26

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	56.5683	ppb	0.3422	0.6	4654.02
Al 308.215	118170	ppb	50.2201	0.0	548404
As 188.980	374.229	ppb	3.9306	1.1	169.923
B 249.678	162.036	ppb	0.2443	0.2	1740.76
Ba 389.178	2067.81	ppb	1.3764	0.1	48837.9
Be 313.042	62.9044	ppb	0.0492	0.1	119076
Ca 370.602	135032	ppb	62.32	0.0	398328
Cd 226.502	53.0562	ppb	0.3467	0.7	3889.10
Co 228.615	247.346	ppb	1.6830	0.7	3359.68
Cr 267.716	574.620	ppb	0.6562	0.1	30599.3
Cu 324.754	432.865	ppb	1.4975	0.3	20807.1
Fe 271.441	443729	ppb	1051.63	0.2	827949
K 766.491	14080.9	ppb	9.9586	0.1	543043
Mg 279.078	60073.8	ppb	115.678	0.2	139643
Mn 257.610	24125.5	ppb	39.5653	0.2	6451634
Mo 202.032	127.309	ppb	0.3763	0.3	1031.16
Na 330.237	5574.15	ppb	123.375	2.2	170.529
Ni 231.604	287.397	ppb	1.5805	0.5	896.885
Pb 220.353	1244.07	ppb	6.8477	0.6	2626.53
Sb 206.834	40.3279	ppb	0.9992	2.5	71.3866
Se 196.026	83.2295	ppb	0.6937	0.8	67.3709
Sn 189.925	237.945	ppb	1.2744	0.5	229.042
Sr 216.596	429.990	ppb	1.8292	0.4	5828.62
Ti 334.941	989.896	ppb	1.8364	0.2	304530
Tl 190.794	76.0818	ppb	2.6121	3.4	4.7218
V 292.401	660.827	ppb	0.3981	0.1	19309.0
Zn 206.200	3693.06	ppb	15.5499	0.4	6067.91

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**680-89896-b-4-c msd (Samp) 5/8/2013, 5:58:10 AM Rack 3, Tube 32****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	48.7092	48.7440	48.2817
Al 308.215	105311	104594	104986
As 188.980	309.351	297.391	295.999
B 249.678	159.376	158.349	159.381
Ba 389.178	1299.06	1297.28	1296.77
Be 313.042	59.4450	59.2327	59.2684
Ca 370.602	79188	79081	79240
Cd 226.502	50.9601	50.9057	50.8597
Co 228.615	153.756	152.468	150.935
Cr 267.716	556.208	555.250	556.967
Cu 324.754	349.292	348.409	352.261
Fe 271.441	376175	375540	375493
K 766.491	13471.2	13517.3	13499.3
Mg 279.078	29265.4	29226.8	29336.0
Mn 257.610	7764.11	7737.65	7785.33
Mo 202.032	107.919	109.695	109.332
Na 330.237	5488.64	5458.39	5463.13
Ni 231.604	227.623	225.800	230.680
Pb 220.353	867.305	862.464	869.887
Sb 206.834	43.0232	42.3104	36.1371
Se 196.026	85.0426	85.7562	77.3803
Sn 189.925	224.471	228.978	230.992
Sr 216.596	388.133	385.744	390.033
Ti 334.941	976.776	973.942	975.059
Tl 190.794	48.9120	43.6631	53.2053
V 292.401	562.088	561.325	562.662
Zn 206.200	2361.45	2359.41	2368.42

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.5783	ppb	0.2574	0.5	3929.41
Al 308.215	104963	ppb	359.134	0.3	487122
As 188.980	300.914	ppb	7.3401	2.4	134.973
B 249.678	159.036	ppb	0.5943	0.4	1792.18
Ba 389.178	1297.71	ppb	1.1997	0.1	30767.8
Be 313.042	59.3153	ppb	0.1137	0.2	112253
Ca 370.602	79170	ppb	81.18	0.1	223979
Cd 226.502	50.9085	ppb	0.0503	0.1	3545.52
Co 228.615	152.386	ppb	1.4119	0.9	2079.26
Cr 267.716	556.142	ppb	0.8604	0.2	29528.7
Cu 324.754	349.987	ppb	2.0182	0.6	16878.2
Fe 271.441	375736	ppb	380.889	0.1	701089
K 766.491	13495.9	ppb	23.2799	0.2	520500
Mg 279.078	29276.1	ppb	55.3881	0.2	68160.1
Mn 257.610	7762.36	ppb	23.8890	0.3	2076689
Mo 202.032	108.982	ppb	0.9384	0.9	885.406
Na 330.237	5470.05	ppb	16.2742	0.3	200.903
Ni 231.604	228.034	ppb	2.4658	1.1	711.001
Pb 220.353	866.552	ppb	3.7682	0.4	1836.95
Sb 206.834	40.4903	ppb	3.7867	9.4	69.7049
Se 196.026	82.7264	ppb	4.6435	5.6	62.1232
Sn 189.925	228.147	ppb	3.3392	1.5	219.072
Sr 216.596	387.970	ppb	2.1491	0.6	5241.38
Ti 334.941	975.259	ppb	1.4277	0.1	299870
Tl 190.794	48.5935	ppb	4.7790	9.8	4.6061
V 292.401	562.025	ppb	0.6707	0.1	16418.3
Zn 206.200	2363.09	ppb	4.7266	0.2	3892.07

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680-89896-b-6-a (Samp) 5/8/2013, 6:03:37 AM Rack 3, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	3.6964	4.4581	3.4681
Al 308.215	134952	134260	133996
As 188.980	140.900	144.975	145.682
B 249.678	132.978	134.308	135.231
Ba 389.178	1728.10	1723.00	1720.33
Be 313.042	21.9753	21.8807	21.8106
Ca 370.602	308006	306236	305566
Cd 226.502	34.2136	33.8441	34.3353
Co 228.615	49.1341	49.4437	49.5148
Cr 267.716	149.290	148.720	148.603
Cu 324.754	529.965	525.021	523.453
Fe 271.441	256877	256427	256591
K 766.491	20595.3	20687.4	20551.0
Mg 279.078	59659.0	59435.1	59485.8
Mn 257.610	11777.6	11762.3	11756.7
Mo 202.032	12.5422	12.7726	13.9382
Na 330.237	2172.57u	2097.42u	1751.84u
Ni 231.604	87.6920	86.9691	88.0698
Pb 220.353	3622.01	3624.99	3615.07
Sb 206.834	7.3507	9.8691	6.6075
Se 196.026	-2.7118	-1.1743	-2.1397
Sn 189.925	68.9526	76.6465	66.8159
Sr 216.596	593.056	591.761	591.784
Ti 334.941	2666.08	2654.79	2646.35
Tl 190.794	36.3981	32.6040	35.7545
V 292.401	189.540	188.936	188.373
Zn 206.200	9233.23	9215.14	9208.58

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.8742	ppb	0.5184	13.4	320.783
Al 308.215	134403	ppb	493.330	0.4	623718
As 188.980	143.852	ppb	2.5810	1.8	62.1821
B 249.678	134.172	ppb	1.1330	0.8	1616.19
Ba 389.178	1723.81	ppb	3.9441	0.2	40576.5
Be 313.042	21.8889	ppb	0.0827	0.4	41289.9
Ca 370.602	306603	ppb	1261	0.4	964900
Cd 226.502	34.1310	ppb	0.2558	0.7	2407.81
Co 228.615	49.3642	ppb	0.2024	0.4	745.063
Cr 267.716	148.871	ppb	0.3676	0.2	8009.06
Cu 324.754	526.146	ppb	3.3985	0.6	25157.4
Fe 271.441	256632	ppb	227.494	0.1	478874
K 766.491	20611.2	ppb	69.5567	0.3	794720
Mg 279.078	59526.6	ppb	117.379	0.2	138544
Mn 257.610	11765.5	ppb	10.7899	0.1	3146788
Mo 202.032	13.0843	ppb	0.7484	5.7	108.957
Na 330.237	2007.28	ppb	224.380	11.2	-11.9232
Ni 231.604	87.5770	ppb	0.5593	0.6	272.263
Pb 220.353	3620.69	ppb	5.0903	0.1	7564.21
Sb 206.834	7.9424	ppb	1.7094	21.5	22.4789
Se 196.026	-2.0086	ppb	0.7771	38.7	15.5836
Sn 189.925	70.8050	ppb	5.1705	7.3	59.5194
Sr 216.596	592.200	ppb	0.7412	0.1	7829.94
Ti 334.941	2655.74	ppb	9.8955	0.4	816450
Tl 190.794	34.9189	ppb	2.0304	5.8	-10.5361
V 292.401	188.950	ppb	0.5836	0.3	5560.58
Zn 206.200	9218.98	ppb	12.7675	0.1	35957.0

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**680-89896-b-18-a (Samp)**      **5/8/2013, 6:09:03 AM**      **Rack 3, Tube 34****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	3.8030	4.6385	4.5541
Al 308.215	107772	107425	107627
As 188.980	226.352	219.433	217.473
B 249.678	77.2683	76.6625	76.6186
Ba 389.178	2911.83	2906.99	2907.44
Be 313.042	12.5006	12.4881	12.4680
Ca 370.602	303020	304002	302829
Cd 226.502	65.6741	65.9960	66.1088
Co 228.615	103.822	106.562	106.372
Cr 267.716	623.632	624.430	624.192
Cu 324.754	2036.18	2050.88	2083.14
Fe 271.441	445391	446137	444404
K 766.491	16246.1	16325.3	16213.4
Mg 279.078	106415	106610	106543
Mn 257.610	28008.9x	27940.4x	27995.6x
Mo 202.032	44.8970	44.1994	44.4954
Na 330.237	1544.96u	1628.42u	1422.23u
Ni 231.604	277.332	274.911	272.548
Pb 220.353	4209.85	4209.95	4222.61
Sb 206.834	21.7461	25.9803	18.4579
Se 196.026	-5.4803	-2.1434	9.8800
Sn 189.925	183.797	188.257	182.341
Sr 216.596	534.653	536.437	536.057
Ti 334.941	1734.16	1733.39	1729.88
Tl 190.794	42.8568u	41.7931u	44.3429u
V 292.401	443.748	443.441	442.191
Zn 206.200	9123.18	9098.03	9141.44

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.3319b	ppb	0.4599	10.6	440.515
Al 308.215	107608b	ppb	174.082	0.2	499386
As 188.980	221.086b	ppb	4.6648	2.1	97.6578
B 249.678	76.8498b	ppb	0.3631	0.5	586.568
Ba 389.178	2908.75b	ppb	2.6718	0.1	68498.4
Be 313.042	12.4856b	ppb	0.0164	0.1	23404.3
Ca 370.602	303284b	ppb	629.6	0.2	939039
Cd 226.502	65.9263b	ppb	0.2256	0.3	4429.15
Co 228.615	105.585b	ppb	1.5300	1.4	1469.86
Cr 267.716	624.085b	ppb	0.4097	0.1	33234.7
Cu 324.754	2056.73b	ppb	24.0180	1.2	97423.1
Fe 271.441	445311b	ppb	869.354	0.2	830875
K 766.491	16261.6b	ppb	57.5541	0.4	627087
Mg 279.078	106523b	ppb	98.8580	0.1	247812
Mn 257.610	27981.6xb	ppb	36.3151	0.1	7482955
Mo 202.032	44.5306b	ppb	0.3501	0.8	354.833
Na 330.237	1531.87b	ppb	103.717	6.8	-99.7061
Ni 231.604	274.930b	ppb	2.3918	0.9	858.241
Pb 220.353	4214.14b	ppb	7.3404	0.2	8802.45
Sb 206.834	22.0614b	ppb	3.7711	17.1	50.3943
Se 196.026	0.7521b	ppb	8.0792	1074.2	22.8304
Sn 189.925	184.798b	ppb	3.0821	1.7	175.192
Sr 216.596	535.716b	ppb	0.9399	0.2	7213.83
Ti 334.941	1732.47b	ppb	2.2774	0.1	532967
Tl 190.794	42.9976b	ppb	1.2808	3.0	-38.5576
V 292.401	443.127b	ppb	0.8246	0.2	12956.9
Zn 206.200	9120.88b	ppb	21.7925	0.2	14916.8

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89896-a-20-a (Samp) 5/8/2013, 6:14:30 AM Rack 3, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	5.9011	5.6908	5.5318
Al 308.215	114818	113995	113753
As 188.980	190.295	193.765	183.035
B 249.678	68.9615	70.1650	70.1633
Ba 389.178	1490.45	1486.94	1485.70
Be 313.042	12.4918	12.4671	12.4115
Ca 370.602	192994	191208	192854
Cd 226.502	48.9989	49.0199	49.7405
Co 228.615	63.6789	63.3218	63.3053
Cr 267.716	235.860	236.127	235.267
Cu 324.754	584.964	587.181	586.848
Fe 271.441	318221	317032	316855
K 766.491	15190.6	15171.8	15090.6
Mg 279.078	67616.2	67562.6	67475.1
Mn 257.610	15394.0	15372.4	15370.6
Mo 202.032	19.8109	20.7999	19.5678
Na 330.237	1491.83u	1470.49u	1368.00u
Ni 231.604	114.425	115.090	117.819
Pb 220.353	5073.85	5079.43	5087.03
Sb 206.834	5.0761	7.2250	9.6148
Se 196.026	6.1814	2.2931	5.5268
Sn 189.925	92.6132	94.5443	89.9961
Sr 216.596	378.600	377.687	379.157
Ti 334.941	3232.17	3226.31	3220.22
Tl 190.794	50.0945	50.0004	50.0248
V 292.401	227.434	226.077	225.815
Zn 206.200	13726.7	13781.2	13766.2

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.7079	ppb	0.1852	3.2	497.345
Al 308.215	114189	ppb	558.231	0.5	529925
As 188.980	189.031	ppb	5.4752	2.9	82.5920
B 249.678	69.7633	ppb	0.6943	1.0	663.382
Ba 389.178	1487.70	ppb	2.4644	0.2	35197.7
Be 313.042	12.4568	ppb	0.0411	0.3	23331.2
Ca 370.602	192352	ppb	993.1	0.5	593050
Cd 226.502	49.2531	ppb	0.4222	0.9	3260.49
Co 228.615	63.4353	ppb	0.2111	0.3	950.170
Cr 267.716	235.751	ppb	0.4401	0.2	12632.1
Cu 324.754	586.331	ppb	1.1958	0.2	28013.7
Fe 271.441	317369	ppb	742.889	0.2	592186
K 766.491	15151.0	ppb	53.1533	0.4	584284
Mg 279.078	67551.3	ppb	71.2016	0.1	157198
Mn 257.610	15379.0	ppb	13.0283	0.1	4113063
Mo 202.032	20.0595	ppb	0.6526	3.3	162.476
Na 330.237	1443.44	ppb	66.1968	4.6	-105.931
Ni 231.604	115.778	ppb	1.7985	1.6	361.253
Pb 220.353	5080.10	ppb	6.6140	0.1	10598.8
Sb 206.834	7.3053	ppb	2.2704	31.1	24.2493
Se 196.026	4.6671	ppb	2.0818	44.6	20.6728
Sn 189.925	92.3846	ppb	2.2827	2.5	81.3569
Sr 216.596	378.481	ppb	0.7419	0.2	5103.48
Ti 334.941	3226.23	ppb	5.9724	0.2	991818
Tl 190.794	50.0399	ppb	0.0488	0.1	-3.0565
V 292.401	226.442	ppb	0.8691	0.4	6662.04
Zn 206.200	13758.0	ppb	28.1911	0.2	22463.5

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89896-a-21-a (Samp) 5/8/2013, 6:19:56 AM Rack 3, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.3017	0.5922	0.9578
Al 308.215	99249.7	98764.4	98684.1
As 188.980	200.316	215.246	207.223
B 249.678	42.1269	41.7048	43.6415
Ba 389.178	1619.86	1616.85	1616.39
Be 313.042	10.5278	10.4908	10.4647
Ca 370.602	150435	151488	151724
Cd 226.502	7.4037	7.8708	8.0102
Co 228.615	101.793	102.425	102.162
Cr 267.716	337.367	337.257	336.936
Cu 324.754	448.247	445.156	445.841
Fe 271.441	287076	286950	286667
K 766.491	10294.5	10284.0	10203.3
Mg 279.078	51104.9	51124.9	51101.3
Mn 257.610	8584.23	8560.26	8568.49
Mo 202.032	16.0932	16.3929	16.1959
Na 330.237	1166.41u	1062.25u	1100.96u
Ni 231.604	217.408	220.589	219.956
Pb 220.353	3162.48	3157.59	3154.65
Sb 206.834	14.3965	9.6595	13.6319
Se 196.026	1.7278	-7.7260u	-11.4636u
Sn 189.925	105.801	97.9353	102.916
Sr 216.596	472.895	472.432	474.617
Ti 334.941	1104.00	1102.59	1101.04
Tl 190.794	13.6934u	11.7214u	11.6814u
V 292.401	329.337	329.670	328.110
Zn 206.200	3841.20	3848.75	3866.25

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9505	ppb	0.3548	37.3	75.4367
Al 308.215	98899.4	ppb	306.008	0.3	458977
As 188.980	207.595	ppb	7.4718	3.6	91.4587
B 249.678	42.4911	ppb	1.0184	2.4	335.210
Ba 389.178	1617.70	ppb	1.8865	0.1	38132.6
Be 313.042	10.4944	ppb	0.0317	0.3	19588.8
Ca 370.602	151216	ppb	686.2	0.5	462770
Cd 226.502	7.7616	ppb	0.3177	4.1	1427.63
Co 228.615	102.127	ppb	0.3172	0.3	1410.36
Cr 267.716	337.187	ppb	0.2236	0.1	17945.5
Cu 324.754	446.415	ppb	1.6235	0.4	21402.8
Fe 271.441	286898	ppb	209.429	0.1	535347
K 766.491	10260.6	ppb	49.8834	0.5	395811
Mg 279.078	51110.3	ppb	12.7302	0.0	119007
Mn 257.610	8570.99	ppb	12.1770	0.1	2292790
Mo 202.032	16.2274	ppb	0.1523	0.9	132.637
Na 330.237	1109.87	ppb	52.6477	4.7	-16.8449
Ni 231.604	219.318	ppb	1.6838	0.8	681.785
Pb 220.353	3158.24	ppb	3.9564	0.1	6602.05
Sb 206.834	12.5626	ppb	2.5431	20.2	31.1572
Se 196.026	-5.8206	ppb	6.7990	116.8	12.7921
Sn 189.925	102.218	ppb	3.9793	3.9	91.3160
Sr 216.596	473.315	ppb	1.1512	0.2	6297.73
Ti 334.941	1102.54	ppb	1.4803	0.1	339083
Tl 190.794	12.3654	ppb	1.1502	9.3	-32.0171
V 292.401	329.039	ppb	0.8216	0.2	9627.02
Zn 206.200	3852.06	ppb	12.8493	0.3	6310.25

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Verif (CCV) 5/8/2013, 6:25:23 AM Rack 3, Tube 37

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	475.762	474.765	464.902
Al 308.215	4733.14	4679.01	4694.49
As 188.980	481.840	478.626	478.468
B 249.678	488.802	490.629	489.806
Ba 389.178	4990.79	4952.85	4956.86
Be 313.042	502.341	494.951	497.310
Ca 370.602	4890	4849	4864
Cd 226.502	495.754	491.002	493.780
Co 228.615	507.970	503.940	506.336
Cr 267.716	5034.57	4999.58	5006.69
Cu 324.754	4929.09	4942.60	4837.57
Fe 271.441	4832.18	4808.23	4817.96
K 766.491	9990.00	9907.44	9861.95
Mg 279.078	4836.95	4789.46	4823.75
Mn 257.610	5128.43	5097.00	5094.52
Mo 202.032	479.090	475.978	477.617
Na 330.237	6911.45	6737.76	6937.45
Ni 231.604	2495.67	2486.05	2497.00
Pb 220.353	476.722	472.139	476.771
Sb 206.834	935.207	926.188	941.837
Se 196.026	4733.16	4700.86	4727.81
Sn 189.925	4861.80	4812.04	4826.41
Sr 216.596	2447.70	2429.87	2442.43
Ti 334.941	484.181	480.393	480.281
Tl 190.794	4846.04	4820.16	4833.16
V 292.401	4815.08	4778.38	4781.42
Zn 206.200	2533.96	2511.65	2514.83

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	471.810	ppb	6.0028	1.3	38075.7	94.36194
Al 308.215	4702.21	ppb	27.8781	0.6	21874.1	94.04426
As 188.980	479.645	ppb	1.9027	0.4	222.980	95.92895
B 249.678	489.746	ppb	0.9147	0.2	6764.24	19.58983Q
Ba 389.178	4966.84	ppb	20.8445	0.4	115436	99.33672
Be 313.042	498.201	ppb	3.7746	0.8	945475	99.64021
Ca 370.602	4868	ppb	20.96	0.4	15527	97.35023
Cd 226.502	493.512	ppb	2.3874	0.5	20516.1	98.70232
Co 228.615	506.082	ppb	2.0269	0.4	6857.53	101.21645
Cr 267.716	5013.61	ppb	18.4950	0.4	264850	100.27228
Cu 324.754	4903.09	ppb	57.1426	1.2	231565	98.06177
Fe 271.441	4819.46	ppb	12.0462	0.2	9233.35	96.38920
K 766.491	9919.80	ppb	64.9162	0.7	382676	99.19798
Mg 279.078	4816.72	ppb	24.5166	0.5	11171.8	96.33441
Mn 257.610	5106.65	ppb	18.9002	0.4	1365320	102.13299
Mo 202.032	477.562	ppb	1.5566	0.3	3910.43	95.51233
Na 330.237	6862.22	ppb	108.566	1.6	417.528	91.49627
Ni 231.604	2492.91	ppb	5.9755	0.2	7729.91	99.71640
Pb 220.353	475.211	ppb	2.6600	0.6	1019.85	95.04210
Sb 206.834	934.411	ppb	7.8548	0.8	1215.85	93.44109
Se 196.026	4720.61	ppb	17.3086	0.4	2624.19	94.41222
Sn 189.925	4833.42	ppb	25.6094	0.5	4892.50	96.66831
Sr 216.596	2440.00	ppb	9.1610	0.4	31334.8	97.59999
Ti 334.941	481.618	ppb	2.2201	0.5	147992	96.32365
Tl 190.794	4833.12	ppb	12.9422	0.3	5345.94	96.66243
V 292.401	4791.63	ppb	20.3676	0.4	139988	95.83260
Zn 206.200	2520.14	ppb	12.0677	0.5	4092.17	100.80569



Cont Calib Blank (CCB) 5/8/2013, 6:30:50 AM Rack 3, Tube 38  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1164u	-0.3631u	-0.3187u
Al 308.215	-0.3259u	-1.7405u	-1.2126u
As 188.980	7.0282	-2.5177u	-3.8369u
B 249.678	7.1854	6.2874	6.2447
Ba 389.178	0.0844	-0.7563u	-0.7321u
Be 313.042	-0.0062u	-0.0015u	-0.0020u
Ca 370.602	1.294	4.155	-2.957u
Cd 226.502	-0.1441u	-0.1312u	-0.1809u
Co 228.615	0.0964	0.8518	0.0113
Cr 267.716	-0.0902u	-0.1884u	-0.1855u
Cu 324.754	0.2540	-0.0630u	-0.4602u
Fe 271.441	2.0166	0.5036	3.4554
K 766.491	-2.6301u	-2.2973u	-2.4652u
Mg 279.078	-3.0257u	-0.8300u	-1.3992u
Mn 257.610	-0.1340u	-0.1400u	-0.0975u
Mo 202.032	0.3047	-0.3980u	0.2565
Na 330.237	-197.316u	-172.945u	-11.7558u
Ni 231.604	0.5793	-0.2047u	1.2882
Pb 220.353	1.0750	-0.0165u	-1.4901u
Sb 206.834	6.3941	-0.5710u	3.0727
Se 196.026	0.7499	3.8700	-2.9643u
Sn 189.925	0.8125	2.6660	-1.6443u
Sr 216.596	0.4350	0.0465	-0.0195u
Ti 334.941	0.1228	0.0582	0.0634
Tl 190.794	-0.3521u	5.0237	2.2810
V 292.401	0.0974	-0.0638u	-0.1726u
Zn 206.200	5.2389	6.1344	6.2027

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2661	ppb	0.1315	49.4	-42.5181	-0.26607
Al 308.215	-1.0930	ppb	0.7148	65.4	67.2314	-1.09302
As 188.980	0.2245	ppb	5.9289	2640.6	-6.6199	0.22453
B 249.678	6.5725	ppb	0.5312	8.1	236.003	6.57247
Ba 389.178	-0.4680	ppb	0.4786	102.3	-5.3346	-0.46801
Be 313.042	-0.0032	ppb	0.0026	80.1	-383.136	-0.00323
Ca 370.602	0.8305	ppb	3.579	430.9	10.10	0.83054
Cd 226.502	-0.1521	ppb	0.0258	16.9	30.9806	-0.15206
Co 228.615	0.3198	ppb	0.4626	144.7	11.8282	0.31981
Cr 267.716	-0.1547	ppb	0.0559	36.1	9.3045	-0.15471
Cu 324.754	-0.0897	ppb	0.3578	398.8	258.921	-0.08973
Fe 271.441	1.9919	ppb	1.4761	74.1	111.513	1.99189
K 766.491	-2.4642	ppb	0.1664	6.8	275.607	-2.46422
Mg 279.078	-1.7516	ppb	1.1395	65.1	35.0872	-1.75161
Mn 257.610	-0.1238	ppb	0.0230	18.6	40.7244	-0.12383
Mo 202.032	0.0544	ppb	0.3925	721.2	17.3239	0.05442
Na 330.237	-127.339	ppb	100.837	79.2	61.9669	-127.33907
Ni 231.604	0.5542	ppb	0.7467	134.7	-4.1227	0.55425
Pb 220.353	-0.1438	ppb	1.2873	894.9	31.3417	-0.14385
Sb 206.834	2.9653	ppb	3.4838	117.5	7.2884	2.96526
Se 196.026	0.5519	ppb	3.4215	620.0	12.0678	0.55188
Sn 189.925	0.6114	ppb	2.1621	353.6	-11.8636	0.61138
Sr 216.596	0.1540	ppb	0.2456	159.5	22.2612	0.15398
Ti 334.941	0.0815	ppb	0.0358	44.0	-16.6910	0.08148
Tl 190.794	2.3175	ppb	2.6881	116.0	-13.1126	2.31753
V 292.401	-0.0463	ppb	0.1358	293.5	-9.9726	-0.04629
Zn 206.200	5.8586	ppb	0.5378	9.2	37.6421	5.85864

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**680-89896-a-22-a (Samp) 5/8/2013, 6:36:17 AM Rack 3, Tube 39****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	3.8174	4.2318	4.2008
Al 308.215	109121	108809	108703
As 188.980	238.268	236.682	238.456
B 249.678	78.9053	78.1134	77.7447
Ba 389.178	3149.09	3145.91	3139.56
Be 313.042	12.8915	12.8670	12.8272
Ca 370.602	322700	322396	322072
Cd 226.502	32.3309	32.8033	32.6754
Co 228.615	154.037	155.691	153.085
Cr 267.716	663.112	663.527	662.144
Cu 324.754	2014.09	1993.59	2004.99
Fe 271.441	461462	461151	462742
K 766.491	14838.8	15059.5	15060.1
Mg 279.078	121300	121262	121043
Mn 257.610	30234.3x	30122.4x	30207.7x
Mo 202.032	49.9017	49.9330	49.8931
Na 330.237	1203.80u	1263.43u	1357.77u
Ni 231.604	270.577	270.080	270.684
Pb 220.353	3955.23	3958.97	3988.68
Sb 206.834	23.2756	25.1331	16.8636
Se 196.026	8.0198	3.6322	-0.2211
Sn 189.925	150.005	151.001	149.352
Sr 216.596	561.756	560.197	561.097
Ti 334.941	1893.59	1892.44	1889.86
Tl 190.794	52.2026u	54.2688u	49.9996u
V 292.401	490.536	491.588	490.762
Zn 206.200	8927.21	8924.48	8936.63

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.0834b	ppb	0.2308	5.7	430.106
Al 308.215	108878b	ppb	217.137	0.2	505279
As 188.980	237.802b	ppb	0.9746	0.4	105.657
B 249.678	78.2545b	ppb	0.5930	0.8	582.374
Ba 389.178	3144.85b	ppb	4.8517	0.2	74047.1
Be 313.042	12.8619b	ppb	0.0324	0.3	24121.8
Ca 370.602	322389b	ppb	314.1	0.1	999106
Cd 226.502	32.6032b	ppb	0.2444	0.7	3111.85
Co 228.615	154.271b	ppb	1.3184	0.9	2131.99
Cr 267.716	662.927b	ppb	0.7096	0.1	35302.0
Cu 324.754	2004.22b	ppb	10.2718	0.5	94950.3
Fe 271.441	461785b	ppb	843.361	0.2	861616
K 766.491	14986.1b	ppb	127.614	0.9	577930
Mg 279.078	121202b	ppb	138.806	0.1	281979
Mn 257.610	30188.1xb	ppb	58.4923	0.2	8073022
Mo 202.032	49.9092b	ppb	0.0210	0.0	397.729
Na 330.237	1275.00b	ppb	77.6355	6.1	-119.974
Ni 231.604	270.447b	ppb	0.3227	0.1	844.751
Pb 220.353	3967.62b	ppb	18.3288	0.5	8290.39
Sb 206.834	21.7574b	ppb	4.3388	19.9	50.8759
Se 196.026	3.8103b	ppb	4.1234	108.2	25.2529
Sn 189.925	150.120b	ppb	0.8303	0.6	140.009
Sr 216.596	561.017b	ppb	0.7827	0.1	7552.01
Ti 334.941	1891.96b	ppb	1.9113	0.1	582055
Tl 190.794	52.1570b	ppb	2.1350	4.1	-32.9533
V 292.401	490.962b	ppb	0.5541	0.1	14357.9
Zn 206.200	8929.44b	ppb	6.3759	0.1	34606.5

680-89960-a-1-a (Samp) 5/8/2013, 6:41:44 AM Rack 3, Tube 40

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	8.5193	8.6693	8.1730
Al 308.215	15390.5	15292.8	15335.9
As 188.980	12.8518	5.8013	3.4412
B 249.678	46.3715	44.9055	45.3849
Ba 389.178	663.944	662.589	664.639
Be 313.042	0.4299	0.4373	0.4330
Ca 370.602	13612	13556	13621
Cd 226.502	117.235	117.275	118.032
Co 228.615	6.2540	6.5782	6.9425
Cr 267.716	224.653	224.287	225.087
Cu 324.754	207.869	206.242	208.155
Fe 271.441	20871.0	20835.1	20887.3
K 766.491	4048.63	4039.47	4047.82
Mg 279.078	3037.13	3025.07	3042.40
Mn 257.610	9367.69	9337.46	9382.03
Mo 202.032	38.0092	38.5318	38.9447
Na 330.237	2614.84	2702.42	2692.58
Ni 231.604	41.4029	41.0486	41.5604
Pb 220.353	24.8103	25.7006	25.2931
Sb 206.834	-3.3605u	0.4264	4.2048
Se 196.026	-1.7073	6.4036	4.2481
Sn 189.925	29.0721	26.3316	28.6167
Sr 216.596	114.695	114.744	115.380
Ti 334.941	238.269	237.159	237.392
Tl 190.794	14.8056	20.5917	18.7315
V 292.401	27.8791	27.9963	28.2197
Zn 206.200	388.005	383.664	389.977

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.4539	ppb	0.2546	3.0	703.430
Al 308.215	15339.7	ppb	48.9468	0.3	71254.7
As 188.980	7.3648	ppb	4.8962	66.5	-3.2819
B 249.678	45.5539	ppb	0.7475	1.6	735.090
Ba 389.178	663.724	ppb	1.0428	0.2	15463.9
Be 313.042	0.4334	ppb	0.0037	0.8	441.378
Ca 370.602	13596	ppb	35.13	0.3	42288
Cd 226.502	117.514	ppb	0.4489	0.4	4987.07
Co 228.615	6.5915	ppb	0.3444	5.2	102.273
Cr 267.716	224.676	ppb	0.4002	0.2	11935.9
Cu 324.754	207.422	ppb	1.0321	0.5	10056.1
Fe 271.441	20864.5	ppb	26.7223	0.1	39033.1
K 766.491	4045.31	ppb	5.0725	0.1	156275
Mg 279.078	3034.87	ppb	8.8866	0.3	6944.14
Mn 257.610	9362.39	ppb	22.7525	0.2	2503063
Mo 202.032	38.4952	ppb	0.4688	1.2	330.337
Na 330.237	2669.94	ppb	47.9776	1.8	201.786
Ni 231.604	41.3373	ppb	0.2621	0.6	122.948
Pb 220.353	25.2680	ppb	0.4457	1.8	86.8278
Sb 206.834	0.4236	ppb	3.7827	893.1	6.8212
Se 196.026	2.9815	ppb	4.2012	140.9	16.1390
Sn 189.925	28.0068	ppb	1.4685	5.2	15.9450
Sr 216.596	114.939	ppb	0.3819	0.3	1510.59
Ti 334.941	237.606	ppb	0.5854	0.2	72997.0
Tl 190.794	18.0429	ppb	2.9539	16.4	-12.0895
V 292.401	28.0317	ppb	0.1730	0.6	793.786
Zn 206.200	387.215	ppb	3.2296	0.8	631.990

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89985-b-3-a (Samp)                      5/8/2013, 6:47:11 AM                      Rack 3, Tube 41  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	2.5455	2.5797	2.5998
Al 308.215	127425	127241	127906
As 188.980	231.596	239.970	232.141
B 249.678	90.7397	91.5711	91.3905
Ba 389.178	3254.09	3254.94	3256.58
Be 313.042	16.4015	16.3960	16.4181
Ca 370.602	175808	175858	175998
Cd 226.502	55.0860	55.4585	55.5767
Co 228.615	114.656	114.850	115.451
Cr 267.716	534.850	536.788	536.942
Cu 324.754	1208.78	1207.91	1215.13
Fe 271.441	461017	464957	462961
K 766.491	14446.8	14570.0	14559.1
Mg 279.078	27541.5	27596.6	27646.7
Mn 257.610	12345.9	12401.4	12401.8
Mo 202.032	23.7221	24.5889	23.9932
Na 330.237	2247.91u	2074.31u	2167.60u
Ni 231.604	201.124	200.967	202.355
Pb 220.353	3638.98	3649.27	3651.52
Sb 206.834	22.0949	19.3419	22.3078
Se 196.026	-1.7850	-7.7985	-4.9359
Sn 189.925	142.535	143.129	146.702
Sr 216.596	763.634	766.946	769.963
Ti 334.941	2716.35	2720.57	2713.88
Tl 190.794	19.9916u	15.0209u	17.6762u
V 292.401	726.772	728.754	727.664
Zn 206.200	10843.5	10836.1	10866.5

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.5750	ppb	0.0274	1.1	213.866
Al 308.215	127524	ppb	343.510	0.3	591795
As 188.980	234.569	ppb	4.6853	2.0	103.139
B 249.678	91.2338	ppb	0.4373	0.5	756.241
Ba 389.178	3255.21	ppb	1.2673	0.0	76368.4
Be 313.042	16.4052	ppb	0.0115	0.1	30804.9
Ca 370.602	175888	ppb	98.34	0.1	527949
Cd 226.502	55.3737	ppb	0.2561	0.5	4059.21
Co 228.615	114.986	ppb	0.4146	0.4	1626.56
Cr 267.716	536.194	ppb	1.1660	0.2	28521.6
Cu 324.754	1210.61	ppb	3.9425	0.3	57504.1
Fe 271.441	462978	ppb	1969.68	0.4	863838
K 766.491	14525.3	ppb	68.2343	0.5	560170
Mg 279.078	27594.9	ppb	52.6193	0.2	64170.9
Mn 257.610	12383.0	ppb	32.1847	0.3	3312223
Mo 202.032	24.1014	ppb	0.4434	1.8	186.174
Na 330.237	2163.27	ppb	86.8784	4.0	-94.0599
Ni 231.604	201.482	ppb	0.7601	0.4	630.791
Pb 220.353	3646.59	ppb	6.6862	0.2	7617.99
Sb 206.834	21.2482	ppb	1.6543	7.8	49.2022
Se 196.026	-4.8398	ppb	3.0079	62.1	15.5526
Sn 189.925	144.122	ppb	2.2541	1.6	133.848
Sr 216.596	766.847	ppb	3.1655	0.4	10184.7
Ti 334.941	2716.93	ppb	3.3834	0.1	835123
Tl 190.794	17.5629	ppb	2.4873	14.2	-42.3314
V 292.401	727.730	ppb	0.9928	0.1	21322.8
Zn 206.200	10848.7	ppb	15.8632	0.1	37735.9

680-89985-b-3-b ms (Samp) 5/8/2013, 6:52:39 AM Rack 3, Tube 42

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.0684	50.2503	51.4992
Al 308.215	174435	174977	175304
As 188.980	365.056	371.751	371.203
B 249.678	267.623	272.830	271.567
Ba 389.178	5635.86	5637.52	5651.17
Be 313.042	66.4292	66.5904	66.5158
Ca 370.602	202439	203080	204429
Cd 226.502	105.513	106.114	106.240
Co 228.615	176.906	174.654	180.370
Cr 267.716	676.304	678.619	680.221
Cu 324.754	2047.92	2020.33	2017.61
Fe 271.441	533601	537218	535601
K 766.491	22087.1	22216.7	22227.7
Mg 279.078	36896.8	36978.7	37085.1
Mn 257.610	21288.7	21332.0	21274.1
Mo 202.032	109.488	109.181	109.887
Na 330.237	7023.06	7223.65	7058.02
Ni 231.604	322.669	322.924	325.458
Pb 220.353	4245.68	4273.14	4277.33
Sb 206.834	34.8030	42.2241	33.4592
Se 196.026	87.4188	82.0503	85.8825
Sn 189.925	368.577	365.325	371.425
Sr 216.596	1143.89	1148.01	1151.92
Ti 334.941	2827.44	2836.58	2841.01
Tl 190.794	69.9793	66.4710	61.2209
V 292.401	836.001	840.757	840.709
Zn 206.200	12157.5	12222.4	12270.5

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.9393	ppb	0.6344	1.2	4151.56
Al 308.215	174905	ppb	439.098	0.3	811659
As 188.980	369.337	ppb	3.7170	1.0	167.293
B 249.678	270.673	ppb	2.7161	1.0	3085.33
Ba 389.178	5641.52	ppb	8.4013	0.1	131939
Be 313.042	66.5118	ppb	0.0807	0.1	125950
Ca 370.602	203316	ppb	1016	0.5	610395
Cd 226.502	105.956	ppb	0.3886	0.4	6426.54
Co 228.615	177.310	ppb	2.8796	1.6	2466.54
Cr 267.716	678.381	ppb	1.9696	0.3	36093.7
Cu 324.754	2028.62	ppb	16.7676	0.8	96120.1
Fe 271.441	535473	ppb	1811.77	0.3	999092
K 766.491	22177.2	ppb	78.1970	0.4	855071
Mg 279.078	36986.8	ppb	94.4098	0.3	85896.1
Mn 257.610	21298.3	ppb	30.0909	0.1	5695893
Mo 202.032	109.519	ppb	0.3536	0.3	880.118
Na 330.237	7101.58	ppb	107.156	1.5	136.509
Ni 231.604	323.684	ppb	1.5420	0.5	1011.79
Pb 220.353	4265.38	ppb	17.1911	0.4	8907.83
Sb 206.834	36.8288	ppb	4.7206	12.8	71.3035
Se 196.026	85.1172	ppb	2.7649	3.2	68.2588
Sn 189.925	368.443	ppb	3.0523	0.8	361.503
Sr 216.596	1147.94	ppb	4.0186	0.4	15127.9
Ti 334.941	2835.01	ppb	6.9178	0.2	871467
Tl 190.794	65.8904	ppb	4.4080	6.7	-7.3140
V 292.401	839.156	ppb	2.7324	0.3	24562.5
Zn 206.200	12216.8	ppb	56.7167	0.5	19974.1

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**680-89985-b-3-c msd (Samp) 5/8/2013, 6:58:06 AM Rack 3, Tube 43****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	47.6204	48.2382	48.4764
Al 308.215	153929	154003	154552
As 188.980	351.016	351.937	348.543
B 249.678	248.724	251.579	251.801
Ba 389.178	10900.1x	10899.9x	10910.4x
Be 313.042	70.2474	70.1582	70.1293
Ca 370.602	189034	189872	189474
Cd 226.502	97.2794	96.8883	97.7842
Co 228.615	399.320	403.749	401.127
Cr 267.716	563.984	564.656	564.325
Cu 324.754	1154.72	1156.99	1159.13
Fe 271.441	450109	451960	453802
K 766.491	20919.3	20995.0	21025.8
Mg 279.078	33558.5	33545.3	33671.4
Mn 257.610	66732.9x	66542.3x	66909.1x
Mo 202.032	113.325	114.333	113.258
Na 330.237	6716.93	7003.23	7105.64
Ni 231.604	309.113	308.193	308.361
Pb 220.353	10861.8	10835.7	10887.7
Sb 206.834	73.3809	80.1744	74.7862
Se 196.026	87.8621	89.7055	81.0856
Sn 189.925	328.304	322.055	328.267
Sr 216.596	914.963	914.517	919.013
Ti 334.941	2845.98	2850.20	2841.00
Tl 190.794	159.190	153.616	155.987
V 292.401	813.805	816.635	815.393
Zn 206.200	10615.0	10598.6	10647.4

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.1117b	ppb	0.4418	0.9	4158.99
Al 308.215	154161b	ppb	340.522	0.2	715402
As 188.980	350.499b	ppb	1.7551	0.5	158.843
B 249.678	250.702b	ppb	1.7160	0.7	2927.66
Ba 389.178	10903.4xb	ppb	6.0340	0.1	254064
Be 313.042	70.1783b	ppb	0.0616	0.1	132891
Ca 370.602	189460b	ppb	419.4	0.2	574014
Cd 226.502	97.3173b	ppb	0.4492	0.5	5757.90
Co 228.615	401.399b	ppb	2.2265	0.6	5498.16
Cr 267.716	564.322b	ppb	0.3360	0.1	30263.1
Cu 324.754	1156.95b	ppb	2.2096	0.2	54970.6
Fe 271.441	451957b	ppb	1846.67	0.4	843326
K 766.491	20980.0b	ppb	54.7703	0.3	808933
Mg 279.078	33591.8b	ppb	69.3283	0.2	77168.6
Mn 257.610	66728.1xb	ppb	183.445	0.3	17840578
Mo 202.032	113.639b	ppb	0.6023	0.5	918.564
Na 330.237	6941.93b	ppb	201.477	2.9	171.349
Ni 231.604	308.556b	ppb	0.4897	0.2	962.790
Pb 220.353	10861.7b	ppb	26.0054	0.2	22634.8
Sb 206.834	76.1138b	ppb	3.5860	4.7	116.077
Se 196.026	86.2177b	ppb	4.5391	5.3	80.9131
Sn 189.925	326.209b	ppb	3.5972	1.1	318.640
Sr 216.596	916.164b	ppb	2.4767	0.3	12094.1
Ti 334.941	2845.72b	ppb	4.6062	0.2	874730
Tl 190.794	156.264b	ppb	2.7977	1.8	23.7878
V 292.401	815.278b	ppb	1.4185	0.2	23869.2
Zn 206.200	10620.4b	ppb	24.8443	0.2	17762.4

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89985-b-10-a (Samp) 5/8/2013, 7:03:33 AM Rack 3, Tube 44

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.5066u	-4.0692u	-3.2645u
Al 308.215	126245	126295	126687
As 188.980	301.738	290.780	298.914
B 249.678	12.6981u	13.9402u	10.5091u
Ba 389.178	1943.32	1947.51	1943.67
Be 313.042	14.0809	14.1794	14.1767
Ca 370.602	187266	186454	186454
Cd 226.502	24.3362	24.7271	24.4227
Co 228.615	148.935	154.117	150.175
Cr 267.716	1079.48	1082.51	1081.43
Cu 324.754	1818.31	1803.77	1778.90
Fe 271.441	487096	487550	488841
K 766.491	10247.4	10289.3	10262.6
Mg 279.078	85207.1	85408.2	85389.7
Mn 257.610	13330.9	13373.5	13373.3
Mo 202.032	19.0451	18.9070	19.1616
Na 330.237	987.623u	1108.16u	937.744u
Ni 231.604	427.551	428.720	428.423
Pb 220.353	2004.49	2022.03	2023.69
Sb 206.834	30.3655	22.7401	31.9716
Se 196.026	-3.0668	3.5674	-2.5987
Sn 189.925	72.4636	76.0535	83.3261
Sr 216.596	263.550	264.681	265.731
Ti 334.941	1296.62	1297.02	1292.77
Tl 190.794	21.2316u	17.4257u	18.9999u
V 292.401	654.919	658.935	657.208
Zn 206.200	5269.15	5300.52	5305.41

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.6134	ppb	0.4128	11.4	-258.732
Al 308.215	126409	ppb	242.202	0.2	586621
As 188.980	297.144	ppb	5.6897	1.9	132.992
B 249.678	12.3825	ppb	1.7372	14.0	-343.965
Ba 389.178	1944.84	ppb	2.3262	0.1	46110.0
Be 313.042	14.1457	ppb	0.0561	0.4	26519.0
Ca 370.602	186725	ppb	469.0	0.3	560475
Cd 226.502	24.4953	ppb	0.2053	0.8	2873.01
Co 228.615	151.076	ppb	2.7060	1.8	2072.52
Cr 267.716	1081.14	ppb	1.5384	0.1	57319.9
Cu 324.754	1800.33	ppb	19.9324	1.1	85335.1
Fe 271.441	487829	ppb	905.290	0.2	910205
K 766.491	10266.4	ppb	21.2395	0.2	396035
Mg 279.078	85335.0	ppb	111.149	0.1	198702
Mn 257.610	13359.2	ppb	24.5378	0.2	3573817
Mo 202.032	19.0379	ppb	0.1274	0.7	143.522
Na 330.237	1011.18	ppb	87.6142	8.7	-110.326
Ni 231.604	428.231	ppb	0.6076	0.1	1335.01
Pb 220.353	2016.74	ppb	10.6395	0.5	4230.37
Sb 206.834	28.3591	ppb	4.9320	17.4	65.3319
Se 196.026	-0.6994	ppb	3.7025	529.4	18.2818
Sn 189.925	77.2811	ppb	5.5343	7.2	66.0214
Sr 216.596	264.654	ppb	1.0908	0.4	3737.96
Ti 334.941	1295.47	ppb	2.3454	0.2	398569
Tl 190.794	19.2191	ppb	1.9124	10.0	-43.5562
V 292.401	657.021	ppb	2.0148	0.3	19192.9
Zn 206.200	5291.69	ppb	19.6772	0.4	8677.59

680-89985-b-16-a (Samp) 5/8/2013, 7:09:00 AM Rack 3, Tube 45

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4514u	-0.5062u	-0.9364u
Al 308.215	112070	112010	112682
As 188.980	318.776	309.656	307.268
B 249.678	15.5999u	13.3774u	12.7903u
Ba 389.178	2309.56	2300.87	2306.69
Be 313.042	16.8415	16.8160	16.8517
Ca 370.602	62199	62083	62156
Cd 226.502	10.9959	11.4769	10.6187
Co 228.615	127.576	130.255	129.052
Cr 267.716	637.410	636.848	638.286
Cu 324.754	654.912	646.191	657.274
Fe 271.441	565731	565551	569280
K 766.491	8625.86	8657.65	8626.70
Mg 279.078	17192.0	17174.5	17225.3
Mn 257.610	9850.43	9879.75	9864.07
Mo 202.032	26.8294	26.1156	26.0124
Na 330.237	1326.76u	1489.15u	1120.29u
Ni 231.604	148.607	150.341	150.178
Pb 220.353	2640.87	2642.24	2645.18
Sb 206.834	18.2108	16.1684	16.9769
Se 196.026	-3.4727	-2.1614	-2.3750
Sn 189.925	110.894	104.470	102.521
Sr 216.596	581.020	581.219	581.073
Ti 334.941	1683.96	1682.92	1681.37
Tl 190.794	13.9706u	17.4301u	20.9117u
V 292.401	854.714	853.352	856.230
Zn 206.200	5582.76	5564.07	5581.87

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6313	ppb	0.2656	42.1	-47.9878
Al 308.215	112254	ppb	371.912	0.3	520937
As 188.980	311.900	ppb	6.0731	1.9	138.612
B 249.678	13.9225	ppb	1.4820	10.6	-429.877
Ba 389.178	2305.71	ppb	4.4307	0.2	54429.4
Be 313.042	16.8364	ppb	0.0184	0.1	31576.8
Ca 370.602	62146	ppb	59.06	0.1	153679
Cd 226.502	11.0305	ppb	0.4301	3.9	2608.63
Co 228.615	128.961	ppb	1.3418	1.0	1780.22
Cr 267.716	637.515	ppb	0.7246	0.1	33886.3
Cu 324.754	652.792	ppb	5.8377	0.9	31213.6
Fe 271.441	566854	ppb	2103.26	0.4	1057625
K 766.491	8636.74	ppb	18.1167	0.2	333227
Mg 279.078	17197.3	ppb	25.7967	0.2	40013.3
Mn 257.610	9864.75	ppb	14.6690	0.1	2639225
Mo 202.032	26.3191	ppb	0.4449	1.7	198.148
Na 330.237	1312.07	ppb	184.867	14.1	-128.793
Ni 231.604	149.708	ppb	0.9572	0.6	472.674
Pb 220.353	2642.77	ppb	2.2027	0.1	5530.49
Sb 206.834	17.1187	ppb	1.0286	6.0	48.2221
Se 196.026	-2.6697	ppb	0.7036	26.4	16.7413
Sn 189.925	105.962	ppb	4.3815	4.1	95.0600
Sr 216.596	581.104	ppb	0.1032	0.0	7846.87
Ti 334.941	1682.75	ppb	1.3021	0.1	517260
Tl 190.794	17.4375	ppb	3.4706	19.9	-44.2461
V 292.401	854.765	ppb	1.4399	0.2	25021.2
Zn 206.200	5576.23	ppb	10.5424	0.2	9151.80



**680-89985-a-27-a (Samp)**                      **5/8/2013, 7:14:27 AM**                      **Rack 3, Tube 46**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.2063	0.6709	0.9594
Al 308.215	115403	115005	115667
As 188.980	218.964	223.327	222.544
B 249.678	22.2361u	23.3929u	23.1243u
Ba 389.178	2129.74	2122.08	2125.33
Be 313.042	10.0378	10.0164	10.0451
Ca 370.602	127985	127860	128054
Cd 226.502	31.2796	31.1549	31.1213
Co 228.615	98.5198	98.5384	98.3392
Cr 267.716	474.234	473.391	474.524
Cu 324.754	2059.27	2011.43	2058.37
Fe 271.441	327701	327093	328145
K 766.491	11112.6	11081.0	11011.4
Mg 279.078	44833.2	44839.5	44973.7
Mn 257.610	12571.7	12550.3	12588.3
Mo 202.032	18.5335	19.4097	18.6442
Na 330.237	839.287u	769.618u	721.150u
Ni 231.604	261.470	264.144	264.787
Pb 220.353	2360.39	2367.05	2379.54
Sb 206.834	28.9649	27.4368	27.3480
Se 196.026	0.7932	1.5105	-7.9676
Sn 189.925	115.994	115.291	115.634
Sr 216.596	273.487	273.596	274.335
Ti 334.941	1168.21	1166.10	1164.40
Tl 190.794	17.2019u	21.3904u	15.4246u
V 292.401	382.778	383.296	383.792
Zn 206.200	5668.69	5689.95	5722.39

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9455	ppb	0.2680	28.3	105.211
Al 308.215	115358	ppb	332.925	0.3	535348
As 188.980	221.612	ppb	2.3264	1.0	97.6892
B 249.678	22.9177	ppb	0.6054	2.6	14.5336
Ba 389.178	2125.72	ppb	3.8409	0.2	49978.5
Be 313.042	10.0331	ppb	0.0149	0.1	18702.2
Ca 370.602	127966	ppb	98.16	0.1	384790
Cd 226.502	31.1853	ppb	0.0834	0.3	2553.20
Co 228.615	98.4658	ppb	0.1100	0.1	1361.61
Cr 267.716	474.050	ppb	0.5886	0.1	25205.2
Cu 324.754	2043.03	ppb	27.3653	1.3	96743.7
Fe 271.441	327646	ppb	527.792	0.2	611365
K 766.491	11068.3	ppb	51.7552	0.5	426940
Mg 279.078	44882.1	ppb	79.3686	0.2	104426
Mn 257.610	12570.1	ppb	19.0488	0.2	3361960
Mo 202.032	18.8625	ppb	0.4771	2.5	151.719
Na 330.237	776.685	ppb	59.3846	7.6	-65.6531
Ni 231.604	263.467	ppb	1.7592	0.7	819.809
Pb 220.353	2369.00	ppb	9.7231	0.4	4962.44
Sb 206.834	27.9166	ppb	0.9089	3.3	52.8949
Se 196.026	-1.8880	ppb	5.2773	279.5	16.3573
Sn 189.925	115.639	ppb	0.3516	0.3	104.923
Sr 216.596	273.806	ppb	0.4613	0.2	3753.34
Ti 334.941	1166.24	ppb	1.9080	0.2	358634
Tl 190.794	18.0056	ppb	3.0630	17.0	-34.6751
V 292.401	383.289	ppb	0.5068	0.1	11208.2
Zn 206.200	5693.68	ppb	27.0426	0.5	9316.83

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89985-a-28-a (Samp) 5/8/2013, 7:19:54 AM Rack 3, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	3.9978	4.2576	5.0972
Al 308.215	151476	151532	152291
As 188.980	267.845	274.731	257.223
B 249.678	131.996	133.621	133.672
Ba 389.178	4229.63	4234.76	4230.50
Be 313.042	18.4264	18.4421	18.4087
Ca 370.602	235751	237011	236743
Cd 226.502	86.5390	87.0309	86.6953
Co 228.615	117.656	118.313	117.684
Cr 267.716	565.900	566.287	567.338
Cu 324.754	2686.11	2736.39	2698.17
Fe 271.441	438992	441266	440379
K 766.491	17602.2	17621.0	17437.6
Mg 279.078	36501.7	36537.5	36583.2
Mn 257.610	17290.7	17299.1	17357.2
Mo 202.032	30.3523	30.1829	29.8357
Na 330.237	3565.92u	3420.61u	3523.12u
Ni 231.604	249.142	247.441	246.366
Pb 220.353	6110.28	6114.67	6126.98
Sb 206.834	26.7161	23.9650	28.6996
Se 196.026	2.2804	7.4238	-5.7479
Sn 189.925	248.118	249.692	238.616
Sr 216.596	973.296	973.701	975.721
Ti 334.941	2711.24	2706.88	2706.27
Tl 190.794	28.0164u	24.4046u	25.9727u
V 292.401	603.199	604.583	602.364
Zn 206.200	15937.2	15956.9	16001.1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.4509	ppb	0.5746	12.9	379.240
Al 308.215	151766	ppb	455.304	0.3	704285
As 188.980	266.600	ppb	8.8201	3.3	119.056
B 249.678	133.096	ppb	0.9532	0.7	1352.46
Ba 389.178	4231.63	ppb	2.7423	0.1	99045.7
Be 313.042	18.4257	ppb	0.0167	0.1	34666.9
Ca 370.602	236502	ppb	664.0	0.3	724668
Cd 226.502	86.7551	ppb	0.2514	0.3	5277.46
Co 228.615	117.885	ppb	0.3716	0.3	1666.19
Cr 267.716	566.508	ppb	0.7442	0.1	30142.1
Cu 324.754	2706.89	ppb	26.2482	1.0	128095
Fe 271.441	440212	ppb	1146.29	0.3	821367
K 766.491	17553.6	ppb	100.865	0.6	676880
Mg 279.078	36540.8	ppb	40.8753	0.1	84915.9
Mn 257.610	17315.7	ppb	36.2190	0.2	4630903
Mo 202.032	30.1236	ppb	0.2633	0.9	236.929
Na 330.237	3503.22	ppb	74.6742	2.1	-53.2504
Ni 231.604	247.650	ppb	1.3998	0.6	773.522
Pb 220.353	6117.31	ppb	8.6605	0.1	12757.0
Sb 206.834	26.4602	ppb	2.3777	9.0	55.3251
Se 196.026	1.3188	ppb	6.6383	503.4	20.1871
Sn 189.925	245.475	ppb	5.9925	2.4	236.733
Sr 216.596	974.239	ppb	1.2991	0.1	12844.6
Ti 334.941	2708.13	ppb	2.7113	0.1	832461
Tl 190.794	26.1312	ppb	1.8111	6.9	-39.7073
V 292.401	603.382	ppb	1.1211	0.2	17675.3
Zn 206.200	15965.1	ppb	32.7950	0.2	26974.5

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

680-89985-a-29-a (Samp) 5/8/2013, 7:25:21 AM Rack 3, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1349	-0.5935u	-0.0885
Al 308.215	114725	114953	115282
As 188.980	246.779	234.099	244.550
B 249.678	35.6012u	34.6972u	33.2309u
Ba 389.178	2665.16	2668.53	2665.33
Be 313.042	13.0491	13.0809	13.0779
Ca 370.602	70983	71035	71023
Cd 226.502	13.7848	13.9672	13.4589
Co 228.615	116.160	116.325	116.997
Cr 267.716	753.107	755.421	754.134
Cu 324.754	828.430	824.165	835.565
Fe 271.441	407739	409187	409226
K 766.491	10452.4	10397.0	10398.6
Mg 279.078	19621.8	19679.3	19646.1
Mn 257.610	11481.8	11512.1	11499.5
Mo 202.032	21.2937	22.2139	21.8765
Na 330.237	1699.13u	1955.63u	1752.44u
Ni 231.604	153.588	151.948	152.088
Pb 220.353	4424.97	4444.94	4451.11
Sb 206.834	25.5551	24.5520	21.0294
Se 196.026	-5.4723	-1.5824	-7.2776
Sn 189.925	188.813	189.587	187.447
Sr 216.596	640.584	644.489	643.706
Ti 334.941	1761.58	1761.76	1758.94
Tl 190.794	17.4640u	19.1237u	13.6801u
V 292.401	572.986	573.769	572.504
Zn 206.200	6343.40	6357.73	6343.42

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1824	ppb	0.3731	204.6	-7.8029
Al 308.215	114986	ppb	279.988	0.2	533620
As 188.980	241.810	ppb	6.7698	2.8	106.344
B 249.678	34.5097	ppb	1.1962	3.5	61.5614
Ba 389.178	2666.34	ppb	1.8932	0.1	62589.4
Be 313.042	13.0693	ppb	0.0175	0.1	24439.4
Ca 370.602	71014	ppb	27.26	0.0	195201
Cd 226.502	13.7370	ppb	0.2575	1.9	2132.61
Co 228.615	116.494	ppb	0.4434	0.4	1620.96
Cr 267.716	754.220	ppb	1.1594	0.2	40021.6
Cu 324.754	829.387	ppb	5.7595	0.7	39504.0
Fe 271.441	408717	ppb	847.617	0.2	762611
K 766.491	10416.0	ppb	31.5344	0.3	401799
Mg 279.078	19649.1	ppb	28.8785	0.1	45664.7
Mn 257.610	11497.8	ppb	15.2155	0.1	3075327
Mo 202.032	21.7947	ppb	0.4655	2.1	170.687
Na 330.237	1802.40	ppb	135.351	7.5	-50.0573
Ni 231.604	152.542	ppb	0.9089	0.6	477.597
Pb 220.353	4440.34	ppb	13.6658	0.3	9268.50
Sb 206.834	23.7122	ppb	2.3769	10.0	53.3837
Se 196.026	-4.7774	ppb	2.9105	60.9	14.9948
Sn 189.925	188.616	ppb	1.0833	0.6	178.948
Sr 216.596	642.926	ppb	2.0660	0.3	8546.08
Ti 334.941	1760.76	ppb	1.5799	0.1	541227
Tl 190.794	16.7559	ppb	2.7900	16.7	-38.8353
V 292.401	573.086	ppb	0.6383	0.1	16761.0
Zn 206.200	6348.18	ppb	8.2687	0.1	10792.1

**Cont Calib Verif (CCV) 5/8/2013, 7:30:48 AM Rack 3, Tube 49**  
**Weight: 1 Volume: 1 Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	469.170	471.651	461.979
Al 308.215	4712.58	4665.59	4598.04
As 188.980	483.267	483.237	465.609
B 249.678	487.228	486.728	479.068
Ba 389.178	4986.17	4939.70	4847.66
Be 313.042	498.896	491.921	485.957
Ca 370.602	4870	4821	4740
Cd 226.502	491.556	487.320	478.358
Co 228.615	503.514	499.535	488.395
Cr 267.716	5022.50	4967.08	4880.65
Cu 324.754	4898.42	4963.75	4933.35
Fe 271.441	4800.62	4764.32	4659.97
K 766.491	9992.74	9842.85	9769.44
Mg 279.078	4804.05	4749.97	4677.85
Mn 257.610	5083.58	5043.99	4942.71
Mo 202.032	474.995	472.071	465.417
Na 330.237	6892.18	6734.17	6932.01
Ni 231.604	2490.67	2467.38	2430.18
Pb 220.353	476.282	470.094	462.878
Sb 206.834	934.335	932.298	912.394
Se 196.026	4711.49	4676.04	4593.63
Sn 189.925	4839.09	4801.34	4723.61
Sr 216.596	2439.16	2417.38	2379.44
Ti 334.941	482.818	477.373	467.844
Tl 190.794	4838.59	4795.91	4694.39
V 292.401	4796.96	4735.74	4650.82
Zn 206.200	2511.32	2507.47	2452.28

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	467.600	ppb	5.0238	1.1	37735.8	93.52000
Al 308.215	4658.74	ppb	57.5800	1.2	21672.7	93.17473
As 188.980	477.371	ppb	10.1862	2.1	221.892	95.47417
B 249.678	484.341	ppb	4.5739	0.9	6691.23	19.37364Q
Ba 389.178	4924.51	ppb	70.4925	1.4	114452	98.49021
Be 313.042	492.258	ppb	6.4762	1.3	934192	98.45160
Ca 370.602	4811	ppb	65.36	1.4	15345	96.21005
Cd 226.502	485.745	ppb	6.7383	1.4	20193.8	97.14893
Co 228.615	497.148	ppb	7.8371	1.6	6736.68	99.42960
Cr 267.716	4956.74	ppb	71.4860	1.4	261846	99.13490
Cu 324.754	4931.84	ppb	32.6901	0.7	232921	98.63679
Fe 271.441	4741.64	ppb	73.0140	1.5	9086.18	94.83276
K 766.491	9868.34	ppb	113.808	1.2	380693	98.68343
Mg 279.078	4743.95	ppb	63.3150	1.3	11003.4	94.87907
Mn 257.610	5023.42	ppb	72.6518	1.4	1343070	100.46848
Mo 202.032	470.828	ppb	4.9085	1.0	3855.52	94.16557
Na 330.237	6852.79	ppb	104.639	1.5	417.305	91.37047
Ni 231.604	2462.74	ppb	30.5060	1.2	7636.30	98.50973
Pb 220.353	469.751	ppb	6.7084	1.4	1008.50	93.95023
Sb 206.834	926.342	ppb	12.1227	1.3	1205.22	92.63423
Se 196.026	4660.39	ppb	60.4700	1.3	2590.86	93.20770
Sn 189.925	4788.01	ppb	58.8806	1.2	4846.42	95.76028
Sr 216.596	2411.99	ppb	30.2220	1.3	30975.5	96.47977
Ti 334.941	476.011	ppb	7.5793	1.6	146269	95.20225
Tl 190.794	4776.30	ppb	74.0764	1.6	5282.91	95.52595
V 292.401	4727.84	ppb	73.3930	1.6	138124	94.55679
Zn 206.200	2490.36	ppb	33.0323	1.3	4043.79	99.61443

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Blank (CCB)                      5/8/2013, 7:36:15 AM                      Rack 3, Tube 50  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0654u	-0.3034u	-0.4217u
Al 308.215	-0.6403u	0.1961	-0.3663u
As 188.980	4.9515	3.0009	6.1394
B 249.678	5.8019	6.1543	5.1706
Ba 389.178	-0.2227u	-0.4638u	-0.6990u
Be 313.042	0.0008	0.0055	0.0089
Ca 370.602	-2.119u	1.416	-0.0783u
Cd 226.502	-0.1001u	-0.0003	-0.2185u
Co 228.615	0.2712	0.1028	0.1100
Cr 267.716	-0.2343u	0.0944	-0.0006u
Cu 324.754	-0.6792u	-0.7850u	-0.3351u
Fe 271.441	-0.8840u	9.7373	4.5166
K 766.491	-2.4909u	-2.1340u	-2.2712u
Mg 279.078	-0.3621u	-2.0881u	-0.2264u
Mn 257.610	-0.1149u	-0.0428u	-0.0354u
Mo 202.032	0.2445	-0.0306u	-0.2893u
Na 330.237	-167.988u	-212.254u	-65.1823u
Ni 231.604	-0.0809u	-0.0285u	0.2484
Pb 220.353	3.2949	1.9291	-0.3643u
Sb 206.834	1.6741	1.5063	7.3768
Se 196.026	6.8436	1.7526	-3.4078u
Sn 189.925	4.0648	0.9637	0.8261
Sr 216.596	0.1229	0.1138	0.1467
Ti 334.941	0.0959	0.1323	0.1132
Tl 190.794	2.9123	1.2927	2.0163
V 292.401	-0.0734u	-0.2764u	0.2699
Zn 206.200	0.6442	0.6957	0.0358

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2635	ppb	0.1814	68.9	-42.3226	-0.26350
Al 308.215	-0.2702	ppb	0.4264	157.8	71.0514	-0.27020
As 188.980	4.6973	ppb	1.5846	33.7	-4.4769	4.69725
B 249.678	5.7089	ppb	0.4984	8.7	224.322	5.70895
Ba 389.178	-0.4619	ppb	0.2382	51.6	-5.1872	-0.46185
Be 313.042	0.0051	ppb	0.0040	79.9	-367.396	0.00506
Ca 370.602	-0.2607	ppb	1.774	680.7	6.498	-0.26069
Cd 226.502	-0.1063	ppb	0.1092	102.7	32.8821	-0.10631
Co 228.615	0.1613	ppb	0.0952	59.0	9.6856	0.16131
Cr 267.716	-0.0468	ppb	0.1691	361.0	15.0025	-0.04685
Cu 324.754	-0.5998	ppb	0.2353	39.2	234.858	-0.59977
Fe 271.441	4.4566	ppb	5.3109	119.2	116.085	4.45662
K 766.491	-2.2987	ppb	0.1800	7.8	281.986	-2.29871
Mg 279.078	-0.8922	ppb	1.0379	116.3	37.0894	-0.89221
Mn 257.610	-0.0643	ppb	0.0439	68.3	56.6403	-0.06434
Mo 202.032	-0.0251	ppb	0.2669	1063.4	16.6737	-0.02510
Na 330.237	-148.475	ppb	75.4526	50.8	60.8567	-148.47473
Ni 231.604	0.0464	ppb	0.1770	381.8	-5.6987	0.04635
Pb 220.353	1.6199	ppb	1.8491	114.1	35.0089	1.61988
Sb 206.834	3.5190	ppb	3.3420	95.0	7.9735	3.51905
Se 196.026	1.7294	ppb	5.1258	296.4	12.7191	1.72944
Sn 189.925	1.9515	ppb	1.8314	93.8	-10.5037	1.95153
Sr 216.596	0.1278	ppb	0.0170	13.3	21.9382	0.12781
Ti 334.941	0.1138	ppb	0.0182	16.0	-6.7563	0.11379
Tl 190.794	2.0738	ppb	0.8113	39.1	-13.3836	2.07376
V 292.401	-0.0266	ppb	0.2761	1036.2	-9.4070	-0.02665
Zn 206.200	0.4586	ppb	0.3670	80.8	0.1618	0.45857

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**mb 680-275575/20-a (Samp)      5/8/2013, 7:41:42 AM      Rack 3, Tube 51**  
**Weight: 1      Volume: 1      Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1782u	0.3183	-0.0087u
Al 308.215	36.7682	37.0982	36.6515
As 188.980	-3.0409u	-1.0697u	5.0327
B 249.678	3.2798	2.6488	2.2859
Ba 389.178	0.2447	0.5144	0.2794
Be 313.042	-0.0018u	0.0070	0.0107
Ca 370.602	116.3	114.2	121.5
Cd 226.502	0.0696	-0.1329u	-0.1194u
Co 228.615	-0.0231u	0.0631	-0.2160u
Cr 267.716	2.4096	2.3114	2.2441
Cu 324.754	1.1414	0.6496	0.6376
Fe 271.441	118.214	114.783	115.731
K 766.491	19.6190	19.5211	19.7720
Mg 279.078	51.1767	51.1558	52.3276
Mn 257.610	6.3379	6.3422	6.3180
Mo 202.032	0.4026	0.4779	0.4516
Na 330.237	73.7363	25.7970	-75.7782u
Ni 231.604	-0.2459u	0.6103	1.0942
Pb 220.353	2.1827	3.9683	3.2047
Sb 206.834	-2.7149u	6.5113	1.9053
Se 196.026	0.5526	-5.0724u	0.1618
Sn 189.925	23.6980	25.6061	24.7816
Sr 216.596	0.5437	0.5877	0.8200
Ti 334.941	0.9289	0.8390	0.9046
Tl 190.794	-0.7514u	-1.5412u	-1.1437u
V 292.401	0.1441	0.3271	0.0051u
Zn 206.200	10.1606	9.7942	10.4775

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0438	ppb	0.2524	576.0	-17.4550
Al 308.215	36.8393	ppb	0.2317	0.6	243.284
As 188.980	0.3074	ppb	4.2093	1369.4	-6.5804
B 249.678	2.7381	ppb	0.5030	18.4	183.992
Ba 389.178	0.3461	ppb	0.1467	42.4	13.8834
Be 313.042	0.0053	ppb	0.0064	120.7	-366.939
Ca 370.602	117.3	ppb	3.768	3.2	375.4
Cd 226.502	-0.0609	ppb	0.1132	185.9	35.1826
Co 228.615	-0.0586	ppb	0.1429	243.7	6.7074
Cr 267.716	2.3217	ppb	0.0832	3.6	140.190
Cu 324.754	0.8095	ppb	0.2875	35.5	301.390
Fe 271.441	116.243	ppb	1.7716	1.5	324.596
K 766.491	19.6374	ppb	0.1265	0.6	1127.39
Mg 279.078	51.5534	ppb	0.6706	1.3	159.192
Mn 257.610	6.3327	ppb	0.0129	0.2	1767.64
Mo 202.032	0.4441	ppb	0.0382	8.6	20.5024
Na 330.237	7.9184	ppb	76.3438	964.1	69.2614
Ni 231.604	0.4862	ppb	0.6786	139.6	-4.3309
Pb 220.353	3.1186	ppb	0.8959	28.7	38.1265
Sb 206.834	1.9006	ppb	4.6131	242.7	6.0061
Se 196.026	-1.4527	ppb	3.1409	216.2	10.9616
Sn 189.925	24.6953	ppb	0.9570	3.9	12.5769
Sr 216.596	0.6505	ppb	0.1484	22.8	28.7100
Ti 334.941	0.8908	ppb	0.0465	5.2	232.302
Tl 190.794	-1.1454	ppb	0.3949	34.5	-16.9758
V 292.401	0.1588	ppb	0.1615	101.7	-4.1975
Zn 206.200	10.1441	ppb	0.3419	270.4	35.6335

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

700-76178-a-1-d (Samp) 5/8/2013, 7:47:09 AM Rack 3, Tube 52

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3432u	-0.3497u	-0.1455u
Al 308.215	58.4024	59.6300	60.0389
As 188.980	5.8822	11.9809	1.4102
B 249.678	0.7692	0.6688	1.2586
Ba 389.178	0.4811	-0.4436u	-0.0822u
Be 313.042	0.0018	0.0012	-0.0006u
Ca 370.602	83.51	83.16	85.63
Cd 226.502	0.1932	-0.2995u	0.1055
Co 228.615	0.6896	0.1096	0.6730
Cr 267.716	1.9565	2.1046	2.2330
Cu 324.754	19.2023	19.3252	20.4034
Fe 271.441	126.534	135.289	130.981
K 766.491	16.6008	16.5513	16.6624
Mg 279.078	24.4500	18.8492	21.4937
Mn 257.610	2.7231	2.7231	2.7423
Mo 202.032	0.5992	0.4783	0.0160
Na 330.237	-45.4797u	-2.0731u	131.572
Ni 231.604	2.0818	1.3456	0.4764
Pb 220.353	1.2064	1.7989	2.1792
Sb 206.834	1.9493	5.8865	5.5591
Se 196.026	1.3068	-4.0008u	4.7022
Sn 189.925	26.3294	26.5659	25.5494
Sr 216.596	-0.5032u	0.2073	0.2233
Ti 334.941	8.7145	8.6318	8.7613
Tl 190.794	3.2551	-1.5090u	2.5727
V 292.401	0.0700	0.0373	-0.1622u
Zn 206.200	89.6798	87.0753	93.0366

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2795	ppb	0.1160	41.5	-43.5929
Al 308.215	59.3571	ppb	0.8517	1.4	347.763
As 188.980	6.4244	ppb	5.3062	82.6	-3.6498
B 249.678	0.8989	ppb	0.3156	35.1	159.098
Ba 389.178	-0.0149	ppb	0.4660	3125.5	5.4352
Be 313.042	0.0008	ppb	0.0012	154.4	-375.488
Ca 370.602	84.10	ppb	1.340	1.6	268.9
Cd 226.502	-0.0003	ppb	0.2628	92876.3	37.7443
Co 228.615	0.4907	ppb	0.3301	67.3	14.3704
Cr 267.716	2.0981	ppb	0.1384	6.6	128.379
Cu 324.754	19.6436	ppb	0.6608	3.4	1190.00
Fe 271.441	130.934	ppb	4.3779	3.3	352.097
K 766.491	16.6049	ppb	0.0557	0.3	1010.52
Mg 279.078	21.5976	ppb	2.8018	13.0	89.4489
Mn 257.610	2.7295	ppb	0.0111	0.4	804.144
Mo 202.032	0.3645	ppb	0.3078	84.4	19.8514
Na 330.237	28.0066	ppb	92.2791	329.5	69.6567
Ni 231.604	1.3013	ppb	0.8036	61.8	-1.8014
Pb 220.353	1.7281	ppb	0.4902	28.4	35.2297
Sb 206.834	4.4650	ppb	2.1848	48.9	9.1712
Se 196.026	0.6694	ppb	4.3864	655.2	12.1344
Sn 189.925	26.1482	ppb	0.5319	2.0	14.0514
Sr 216.596	-0.0242	ppb	0.4149	1714.8	20.0341
Ti 334.941	8.7025	ppb	0.0656	0.8	2632.84
Tl 190.794	1.4396	ppb	2.5763	179.0	-14.0995
V 292.401	-0.0183	ppb	0.1257	685.8	-9.2241
Zn 206.200	89.9306	ppb	2.9886	3.3	145.710

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

700-76178-a-2-b (Samp) 5/8/2013, 7:52:36 AM Rack 3, Tube 53

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2407u	0.0062	-0.2502u
Al 308.215	70.8998	72.8784	70.5382
As 188.980	13.2071	2.4315	5.4928
B 249.678	-0.5072u	-0.1031u	-0.2150u
Ba 389.178	0.9688	-0.7206u	0.7625
Be 313.042	0.0013	0.0074	0.0070
Ca 370.602	101.0	105.5	99.91
Cd 226.502	0.1636	0.0427	0.1007
Co 228.615	0.3757	-0.7908u	0.0996
Cr 267.716	2.1964	2.2601	2.5078
Cu 324.754	122.811	123.208	122.684
Fe 271.441	125.674	128.797	128.146
K 766.491	19.3999	19.6354	20.0838
Mg 279.078	28.0548	23.9302	24.2207
Mn 257.610	4.5734	4.5723	4.6166
Mo 202.032	0.7519	0.9842	0.2855
Na 330.237	2984.96	2937.59	2926.03
Ni 231.604	0.6552	0.9876	2.6615
Pb 220.353	3.0631	4.2870	2.8278
Sb 206.834	3.2239	-0.5909u	1.3810
Se 196.026	2.5331	-2.1974u	-0.5768u
Sn 189.925	22.0968	25.7279	28.5062
Sr 216.596	-0.2737u	0.3580	0.4125
Ti 334.941	7.9113	7.9343	8.0297
Tl 190.794	-2.0931u	4.4930	-0.4871u
V 292.401	0.0257	0.0563	0.0851
Zn 206.200	545.704	555.273	553.813

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1615	ppb	0.1453	90.0	-34.0502
Al 308.215	71.4388	ppb	1.2598	1.8	403.834
As 188.980	7.0438	ppb	5.5527	78.8	-3.3530
B 249.678	-0.2751	ppb	0.2086	75.8	143.225
Ba 389.178	0.3369	ppb	0.9216	273.5	13.6155
Be 313.042	0.0052	ppb	0.0034	65.4	-367.377
Ca 370.602	102.1	ppb	2.950	2.9	327.0
Cd 226.502	0.1023	ppb	0.0605	59.1	41.9679
Co 228.615	-0.1052	ppb	0.6096	579.6	6.2912
Cr 267.716	2.3214	ppb	0.1645	7.1	140.232
Cu 324.754	122.901	ppb	0.2731	0.2	6061.79
Fe 271.441	127.539	ppb	1.6476	1.3	345.663
K 766.491	19.7063	ppb	0.3474	1.8	1130.05
Mg 279.078	25.4019	ppb	2.3020	9.1	98.2756
Mn 257.610	4.5874	ppb	0.0253	0.6	1300.83
Mo 202.032	0.6739	ppb	0.3558	52.8	22.3804
Na 330.237	2949.53	ppb	31.2257	1.1	225.330
Ni 231.604	1.4348	ppb	1.0753	74.9	-1.3867
Pb 220.353	3.3926	ppb	0.7834	23.1	38.6919
Sb 206.834	1.3380	ppb	1.9078	142.6	5.3117
Se 196.026	-0.0804	ppb	2.4040	2991.7	11.7202
Sn 189.925	25.4436	ppb	3.2142	12.6	13.3376
Sr 216.596	0.1656	ppb	0.3814	230.4	22.4654
Ti 334.941	7.9584	ppb	0.0628	0.8	2403.93
Tl 190.794	0.6376	ppb	3.4341	538.6	-14.9934
V 292.401	0.0557	ppb	0.0297	53.4	-7.1300
Zn 206.200	551.596	ppb	5.1552	0.9	898.354



E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**190-642-a-1-a (Samp)**                      **5/8/2013, 7:58:04 AM**                      **Rack 3, Tube 54****Weight: 1**                                      **Volume: 1**                                      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2104u	-0.0457u	-0.1162u
Al 308.215	71.4272	74.3748	72.4058
As 188.980	7.8630	1.1542	-1.0218u
B 249.678	-1.0751u	-1.3667u	-0.5533u
Ba 389.178	-0.1469u	-0.1209u	0.1176
Be 313.042	0.0031	-0.0034u	0.0031
Ca 370.602	93.74	91.24	92.83
Cd 226.502	0.2214	0.0845	-0.0727u
Co 228.615	-0.2707u	0.0329	-0.2874u
Cr 267.716	2.0592	2.3035	1.9322
Cu 324.754	5.0167	4.2895	4.2646
Fe 271.441	97.7552	99.8063	103.914
K 766.491	19.5838	19.3718	19.5570
Mg 279.078	25.9012	24.9676	26.2283
Mn 257.610	5.0193	4.9787	4.9679
Mo 202.032	0.8581	0.1783	0.4482
Na 330.237	-135.518u	201.092	-41.7397u
Ni 231.604	1.4655	1.0183	0.3807
Pb 220.353	4.1179	2.1498	1.7593
Sb 206.834	1.9731	0.7405	3.8421
Se 196.026	-3.9986u	0.8411	-1.2151u
Sn 189.925	21.7496	26.0441	24.7986
Sr 216.596	-0.1088u	0.0798	0.4482
Ti 334.941	1.4748	1.4598	1.5129
Tl 190.794	-1.1508u	3.1837	0.2174
V 292.401	0.1009	0.3660	-0.1072u
Zn 206.200	23.4311	23.6480	24.5946

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1241	ppb	0.0826	66.6	-31.0117
Al 308.215	72.7359	ppb	1.5013	2.1	409.867
As 188.980	2.6651	ppb	4.6311	173.8	-5.4508
B 249.678	-0.9984	ppb	0.4121	41.3	133.478
Ba 389.178	-0.0501	ppb	0.1458	291.2	4.5890
Be 313.042	0.0009	ppb	0.0038	413.4	-375.338
Ca 370.602	92.60	ppb	1.268	1.4	297.4
Cd 226.502	0.0777	ppb	0.1471	189.4	40.8671
Co 228.615	-0.1751	ppb	0.1803	103.0	5.1461
Cr 267.716	2.0983	ppb	0.1887	9.0	128.377
Cu 324.754	4.5236	ppb	0.4272	9.4	476.622
Fe 271.441	100.492	ppb	3.1363	3.1	295.192
K 766.491	19.5042	ppb	0.1155	0.6	1122.26
Mg 279.078	25.6990	ppb	0.6542	2.5	98.9558
Mn 257.610	4.9886	ppb	0.0271	0.5	1408.04
Mo 202.032	0.4948	ppb	0.3423	69.2	20.9185
Na 330.237	7.9448	ppb	173.718	2186.6	69.1563
Ni 231.604	0.9548	ppb	0.5452	57.1	-2.8772
Pb 220.353	2.6757	ppb	1.2642	47.2	37.2054
Sb 206.834	2.1852	ppb	1.5617	71.5	6.3515
Se 196.026	-1.4575	ppb	2.4290	166.7	10.9584
Sn 189.925	24.1974	ppb	2.2095	9.1	12.0717
Sr 216.596	0.1397	ppb	0.2833	202.7	22.1211
Ti 334.941	1.4825	ppb	0.0274	1.8	414.008
Tl 190.794	0.7501	ppb	2.2158	295.4	-14.8677
V 292.401	0.1199	ppb	0.2371	197.8	-5.3473
Zn 206.200	23.8912	ppb	0.6187	2.6	38.0439

190-642-a-2-a (Samp) 5/8/2013, 8:03:31 AM Rack 3, Tube 55

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1938	0.2584	0.1924
Al 308.215	35.6260	37.9361	34.5746
As 188.980	0.2589	-5.2450u	-2.4812u
B 249.678	-1.1751u	-2.0078u	-1.8835u
Ba 389.178	0.0781	0.0930	0.5188
Be 313.042	0.0016	0.0093	0.0021
Ca 370.602	80.79	78.37	75.78
Cd 226.502	-0.0007	-0.0351u	-0.0107u
Co 228.615	0.1619	0.0383	0.0007
Cr 267.716	2.1717	2.0441	2.2385
Cu 324.754	1.4109	1.3623	0.7129
Fe 271.441	84.0368	75.7524	81.9065
K 766.491	18.1504	18.1491	17.5056
Mg 279.078	21.8179	20.3547	20.1933
Mn 257.610	5.1524	5.1429	5.0106
Mo 202.032	0.2760	0.5775	0.2040
Na 330.237	-95.2622u	-96.5922u	-83.3211u
Ni 231.604	-0.7171u	0.9091	0.4103
Pb 220.353	1.9313	4.8107	0.5412
Sb 206.834	2.8567	5.0274	-2.5815u
Se 196.026	-2.1525u	4.7965	2.9507
Sn 189.925	24.9019	23.1143	21.5278
Sr 216.596	-0.3562u	-0.1502u	0.3191
Ti 334.941	1.3780	1.3706	1.3517
Tl 190.794	-0.4801u	2.4859	1.6257
V 292.401	-0.0048u	0.0359	-0.4678u
Zn 206.200	9.9445	9.8424	11.4741

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2149	ppb	0.0377	17.6	-3.6005
Al 308.215	36.0456	ppb	1.7196	4.8	239.609
As 188.980	-2.4891	ppb	2.7520	110.6	-7.9203
B 249.678	-1.6888	ppb	0.4492	26.6	124.167
Ba 389.178	0.2300	ppb	0.2502	108.8	11.0544
Be 313.042	0.0043	ppb	0.0043	99.6	-368.816
Ca 370.602	78.32	ppb	2.506	3.2	253.1
Cd 226.502	-0.0155	ppb	0.0177	114.2	36.9330
Co 228.615	0.0670	ppb	0.0844	125.9	8.4200
Cr 267.716	2.1515	ppb	0.0988	4.6	131.184
Cu 324.754	1.1620	ppb	0.3897	33.5	318.015
Fe 271.441	80.5652	ppb	4.3020	5.3	258.054
K 766.491	17.9350	ppb	0.3719	2.1	1061.79
Mg 279.078	20.7886	ppb	0.8950	4.3	87.5194
Mn 257.610	5.1020	ppb	0.0793	1.6	1438.23
Mo 202.032	0.3525	ppb	0.1981	56.2	19.7566
Na 330.237	-91.7252	ppb	7.3085	8.0	63.8337
Ni 231.604	0.2008	ppb	0.8331	414.9	-5.2175
Pb 220.353	2.4277	ppb	2.1776	89.7	36.6893
Sb 206.834	1.7675	ppb	3.9196	221.8	5.8381
Se 196.026	1.8649	ppb	3.5995	193.0	12.7960
Sn 189.925	23.1814	ppb	1.6881	7.3	11.0405
Sr 216.596	-0.0625	ppb	0.3461	554.2	19.5208
Ti 334.941	1.3667	ppb	0.0136	1.0	378.417
Tl 190.794	1.2105	ppb	1.5260	126.1	-14.3554
V 292.401	-0.1456	ppb	0.2798	192.2	-13.1041
Zn 206.200	10.4203	ppb	0.9140	8.8	15.0803

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

190-643-a-1-a (Samp) 5/8/2013, 8:08:58 AM Rack 3, Tube 56

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2458u	-0.2779u	-0.3678u
Al 308.215	32.2112	28.9879	30.4498
As 188.980	6.0174	-0.6220u	-0.2762u
B 249.678	-1.9412u	-2.4494u	-0.8151u
Ba 389.178	0.3693	-0.6951u	-0.0385u
Be 313.042	-0.0057u	0.0081	0.0026
Ca 370.602	72.40	71.06	70.75
Cd 226.502	-0.0504u	-0.0080u	0.1213
Co 228.615	0.5917	0.2125	0.0267
Cr 267.716	2.0777	1.9547	2.1291
Cu 324.754	2.2784	2.3466	2.7819
Fe 271.441	74.5052	66.2602	66.8136
K 766.491	18.1593	17.9029	17.1148
Mg 279.078	23.4005	23.0794	21.6424
Mn 257.610	3.9137	3.8391	3.8686
Mo 202.032	0.4844	0.4795	1.0048
Na 330.237	-134.528u	46.3477	142.440
Ni 231.604	0.6522	-0.7887u	0.0418
Pb 220.353	2.6088	2.2738	1.2472
Sb 206.834	3.1345	0.4277	4.9123
Se 196.026	8.9153	5.4857	2.1581
Sn 189.925	24.3650	24.1784	22.3865
Sr 216.596	0.0873	-0.3560u	0.3609
Ti 334.941	1.3288	1.2990	1.2885
Tl 190.794	-0.7141u	2.3383	1.3895
V 292.401	-0.1286u	-0.1815u	-0.3414u
Zn 206.200	12.6346	12.9729	11.2708

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2972	ppb	0.0632	21.3	-45.0082
Al 308.215	30.5496	ppb	1.6140	5.3	214.119
As 188.980	1.7064	ppb	3.7374	219.0	-5.9101
B 249.678	-1.7352	ppb	0.8364	48.2	123.553
Ba 389.178	-0.1214	ppb	0.5370	442.2	2.8790
Be 313.042	0.0017	ppb	0.0070	416.9	-373.898
Ca 370.602	71.40	ppb	0.8759	1.2	231.7
Cd 226.502	0.0210	ppb	0.0894	426.5	38.4027
Co 228.615	0.2770	ppb	0.2880	104.0	11.2519
Cr 267.716	2.0538	ppb	0.0896	4.4	126.021
Cu 324.754	2.4690	ppb	0.2732	11.1	379.677
Fe 271.441	69.1930	ppb	4.6088	6.7	236.877
K 766.491	17.7257	ppb	0.5443	3.1	1053.72
Mg 279.078	22.7074	ppb	0.9362	4.1	92.0120
Mn 257.610	3.8738	ppb	0.0376	1.0	1109.88
Mo 202.032	0.6562	ppb	0.3019	46.0	22.2404
Na 330.237	18.0865	ppb	140.630	777.5	69.8140
Ni 231.604	-0.0316	ppb	0.7233	2291.6	-5.9388
Pb 220.353	2.0433	ppb	0.7095	34.7	35.8893
Sb 206.834	2.8248	ppb	2.2583	79.9	7.1400
Se 196.026	5.5197	ppb	3.3787	61.2	14.8170
Sn 189.925	23.6433	ppb	1.0924	4.6	11.5094
Sr 216.596	0.0308	ppb	0.3618	1176.1	20.7141
Ti 334.941	1.3054	ppb	0.0209	1.6	359.564
Tl 190.794	1.0046	ppb	1.5622	155.5	-14.5815
V 292.401	-0.2172	ppb	0.1108	51.0	-15.2208
Zn 206.200	12.2928	ppb	0.9910	7.3	19.1320

mb 680-275629/1-a (Samp) 5/8/2013, 8:14:25 AM Rack 3, Tube 57

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0443u	0.0754	-0.1414u
Al 308.215	4.7438	3.3558	4.3044
As 188.980	6.5071	7.6169	-1.9947u
B 249.678	-1.3367u	-1.2122u	-0.3853u
Ba 389.178	-0.6478u	-0.4267u	0.0708
Be 313.042	0.0020	-0.0013u	0.0066
Ca 370.602	3.156	5.244	8.220
Cd 226.502	-0.1378u	-0.1379u	-0.2338u
Co 228.615	-0.2755u	0.1392	0.5902
Cr 267.716	-0.3461u	-0.1617u	-0.1258u
Cu 324.754	-0.0217u	-0.4794u	-0.0253u
Fe 271.441	-2.6022u	-3.9821u	-1.9403u
K 766.491	-1.2571u	-0.8369u	-1.3436u
Mg 279.078	-0.3528u	-3.0168u	-2.2411u
Mn 257.610	-0.1053u	-0.0933u	-0.1063u
Mo 202.032	-0.7360u	-0.0321u	-0.4594u
Na 330.237	-193.693u	-227.406u	-122.247u
Ni 231.604	-0.4737u	1.3973	0.2335
Pb 220.353	-0.6143u	0.1592	-0.6906u
Sb 206.834	-1.0504u	3.6821	4.1970
Se 196.026	-1.8295u	-3.1074u	2.1249
Sn 189.925	1.0327	2.6420	0.5451
Sr 216.596	0.0118	-0.4903u	-0.1981u
Ti 334.941	0.0314	0.0464	0.0612
Tl 190.794	-0.1088u	-0.8614u	0.1927
V 292.401	-0.1684u	-0.0619u	-0.2223u
Zn 206.200	0.8549	1.2598	1.0360

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0368	ppb	0.1086	295.3	-23.9701
Al 308.215	4.1347	ppb	0.7094	17.2	91.4651
As 188.980	4.0431	ppb	5.2582	130.1	-4.7902
B 249.678	-0.9781	ppb	0.5171	52.9	133.890
Ba 389.178	-0.3346	ppb	0.3681	110.0	-2.2421
Be 313.042	0.0024	ppb	0.0040	164.8	-372.353
Ca 370.602	5.540	ppb	2.545	45.9	25.62
Cd 226.502	-0.1698	ppb	0.0554	32.6	30.2273
Co 228.615	0.1513	ppb	0.4330	286.1	9.5582
Cr 267.716	-0.2112	ppb	0.1182	56.0	6.3191
Cu 324.754	-0.1755	ppb	0.2632	150.0	254.869
Fe 271.441	-2.8415	ppb	1.0418	36.7	102.464
K 766.491	-1.1459	ppb	0.2710	23.7	326.416
Mg 279.078	-1.8703	ppb	1.3702	73.3	34.8087
Mn 257.610	-0.1016	ppb	0.0073	7.1	46.6504
Mo 202.032	-0.4092	ppb	0.3547	86.7	13.5346
Na 330.237	-181.115	ppb	53.6962	29.6	59.0740
Ni 231.604	0.3857	ppb	0.9447	245.0	-4.6459
Pb 220.353	-0.3819	ppb	0.4701	123.1	30.8473
Sb 206.834	2.2762	ppb	2.8924	127.1	6.4414
Se 196.026	-0.9373	ppb	2.7279	291.0	11.2441
Sn 189.925	1.4066	ppb	1.0973	78.0	-11.0567
Sr 216.596	-0.2255	ppb	0.2521	111.8	17.3840
Ti 334.941	0.0463	ppb	0.0149	32.1	-27.4838
Tl 190.794	-0.2592	ppb	0.5429	209.5	-15.9740
V 292.401	-0.1508	ppb	0.0816	54.1	-12.9837
Zn 206.200	1.0502	ppb	0.2928	27.8	37.8026

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Ics 680-275629/2-a (Samp) 5/8/2013, 8:19:52 AM Rack 3, Tube 58

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	46.8083	47.4881	46.2365
Al 308.215	4499.00	4462.95	4519.55
As 188.980	89.6898	95.7793	102.217
B 249.678	178.882	179.563	180.151
Ba 389.178	96.0454	95.8618	95.5066
Be 313.042	48.9999	48.9721	49.1942
Ca 370.602	4530	4534	4555
Cd 226.502	48.0294	48.2726	48.2402
Co 228.615	48.5681	48.8537	48.6766
Cr 267.716	97.0680	97.2580	97.1507
Cu 324.754	96.3526	96.3349	95.2729
Fe 271.441	4545.16	4551.81	4567.09
K 766.491	4687.38	4665.17	4674.91
Mg 279.078	4573.27	4578.99	4587.36
Mn 257.610	496.709	496.803	497.524
Mo 202.032	91.5641	91.3033	91.6691
Na 330.237	4318.85	4169.53	4198.94
Ni 231.604	95.2879	97.9443	93.2839
Pb 220.353	47.1873	47.8279	43.9814
Sb 206.834	45.3926	49.2313	49.8544
Se 196.026	90.4699	88.1829	90.7533
Sn 189.925	187.832	186.695	182.028
Sr 216.596	94.3875	94.7217	94.5787
Ti 334.941	92.1328	92.2680	92.2705
Tl 190.794	40.6155	39.1004	38.2785
V 292.401	92.8356	93.0014	92.9110
Zn 206.200	98.6343	97.5750	98.7347

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.8443	ppb	0.6266	1.3	3766.05
Al 308.215	4493.83	ppb	28.6501	0.6	20933.0
As 188.980	95.8954	ppb	6.2645	6.5	39.1937
B 249.678	179.532	ppb	0.6352	0.4	2569.09
Ba 389.178	95.8046	ppb	0.2739	0.3	2250.60
Be 313.042	49.0554	ppb	0.1210	0.2	92764.1
Ca 370.602	4540	ppb	13.26	0.3	14250
Cd 226.502	48.1807	ppb	0.1321	0.3	2051.89
Co 228.615	48.6995	ppb	0.1442	0.3	664.843
Cr 267.716	97.1589	ppb	0.0953	0.1	5152.63
Cu 324.754	95.9868	ppb	0.6183	0.6	4794.74
Fe 271.441	4554.69	ppb	11.2410	0.2	8613.97
K 766.491	4675.82	ppb	11.1325	0.2	180575
Mg 279.078	4579.87	ppb	7.0883	0.2	10701.6
Mn 257.610	497.012	ppb	0.4462	0.1	133000
Mo 202.032	91.5122	ppb	0.1883	0.2	764.528
Na 330.237	4229.11	ppb	79.0989	1.9	296.374
Ni 231.604	95.5054	ppb	2.3378	2.4	290.630
Pb 220.353	46.3322	ppb	2.0609	4.4	127.974
Sb 206.834	48.1594	ppb	2.4163	5.0	63.3423
Se 196.026	89.8020	ppb	1.4093	1.6	61.6002
Sn 189.925	185.518	ppb	3.0755	1.7	175.785
Sr 216.596	94.5627	ppb	0.1677	0.2	1233.93
Ti 334.941	92.2238	ppb	0.0788	0.1	28323.5
Tl 190.794	39.3315	ppb	1.1855	3.0	26.9556
V 292.401	92.9160	ppb	0.0830	0.1	2689.90
Zn 206.200	98.3147	ppb	0.6425	0.7	359.576

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680-89980-a-1-a (Samp) 5/8/2013, 8:25:19 AM Rack 3, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4591u	-0.1928u	-0.3703u
Al 308.215	249.550	253.342	253.509
As 188.980	4.6166	-7.1832u	-2.8141
B 249.678	243.804	244.274	244.373
Ba 389.178	12.6764	13.1272	12.0863
Be 313.042	-0.0620u	-0.0569u	-0.0662u
Ca 370.602	253466	255739	255855
Cd 226.502	-0.0710u	-0.0077u	-0.0448u
Co 228.615	-0.0110u	0.4969	-0.5009u
Cr 267.716	-0.1179u	-0.1400u	-0.2137u
Cu 324.754	5.2790	5.1138	5.1215
Fe 271.441	100.786	103.341	92.2316
K 766.491	15743.8	15707.3	15735.3
Mg 279.078	1761.55	1763.32	1760.50
Mn 257.610	8.5633	8.5510	8.4817
Mo 202.032	1.9304	1.5023	1.7524
Na 330.237	58407.9	58701.6	58617.0
Ni 231.604	2.1140	2.3337	2.3777
Pb 220.353	1.3249	1.6509	3.7213
Sb 206.834	-4.1031u	2.5506	3.5455
Se 196.026	6.1781	4.0757	-1.8780u
Sn 189.925	0.8960	0.2688	-2.7454u
Sr 216.596	4143.56	4137.22	4134.27
Ti 334.941	0.7672	0.6515	0.8288
Tl 190.794	0.4194	-4.0249u	-2.7258u
V 292.401	0.2111	0.0322	-0.2134u
Zn 206.200	75.2575	73.6106	74.5172

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3407	ppb	0.1356	39.8	-251.504
Al 308.215	252.133	ppb	2.2391	0.9	1242.42
As 188.980	-1.7936	ppb	5.9658	332.6	-5.9043
B 249.678	244.150	ppb	0.3038	0.1	3449.09
Ba 389.178	12.6300	ppb	0.5220	4.1	303.743
Be 313.042	-0.0617	ppb	0.0047	7.6	-412.186
Ca 370.602	255020	ppb	1347	0.5	819377
Cd 226.502	-0.0411	ppb	0.0318	77.3	35.5922
Co 228.615	-0.0050	ppb	0.4989	10040.8	7.4045
Cr 267.716	-0.1572	ppb	0.0502	31.9	10.3901
Cu 324.754	5.1714	ppb	0.0932	1.8	507.217
Fe 271.441	98.7860	ppb	5.8183	5.9	292.033
K 766.491	15728.8	ppb	19.0716	0.1	606553
Mg 279.078	1761.79	ppb	1.4284	0.1	4144.18
Mn 257.610	8.5320	ppb	0.0440	0.5	2375.19
Mo 202.032	1.7284	ppb	0.2151	12.4	31.0026
Na 330.237	58575.5	ppb	151.177	0.3	3263.00
Ni 231.604	2.2751	ppb	0.1413	6.2	1.2198
Pb 220.353	2.2324	ppb	1.2997	58.2	36.2874
Sb 206.834	0.6644	ppb	4.1586	626.0	4.4218
Se 196.026	2.7919	ppb	4.1787	149.7	13.3098
Sn 189.925	-0.5269	ppb	1.9467	369.5	-12.8616
Sr 216.596	4138.35	ppb	4.7447	0.1	53278.0
Ti 334.941	0.7492	ppb	0.0900	12.0	192.236
Tl 190.794	-2.1104	ppb	2.2851	108.3	-18.0508
V 292.401	0.0100	ppb	0.2131	2134.8	-9.1367
Zn 206.200	74.4618	ppb	0.8248	1.1	337.495

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**680-89980-a-1-aSD^5 (Samp) 5/8/2013, 8:30:46 AM Rack 3, Tube 60****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5983u	0.1401u	-0.2058u
Al 308.215	48.1347	46.5086	49.2197
As 188.980	-3.8446u	5.9480	2.1585
B 249.678	51.1582	49.5767	50.3087
Ba 389.178	0.3873	-0.1045u	0.2860
Be 313.042	-0.0200u	-0.0192u	-0.0163u
Ca 370.602	50857	50949	50861
Cd 226.502	-0.0265u	-0.0106u	-0.2155u
Co 228.615	0.1574	0.1872	0.1574
Cr 267.716	-0.0713u	-0.2904u	-0.2553u
Cu 324.754	1.1168	0.9020	0.8288
Fe 271.441	18.7934	20.5429	14.0718
K 766.491	2793.71	2801.49	2797.50
Mg 279.078	358.374	360.443	353.558
Mn 257.610	1.9104	1.9045	1.8697
Mo 202.032	0.9403	-0.1416u	0.1543
Na 330.237	10674.2	10684.9	10542.8
Ni 231.604	2.8085	0.6712	1.6960
Pb 220.353	1.0709	-0.4567u	0.5167
Sb 206.834	-0.4242u	-2.6995u	5.3567
Se 196.026	2.3652	2.0361	-4.2600u
Sn 189.925	3.5150	0.4396	-0.3418u
Sr 216.596	840.002	836.519	835.300
Ti 334.941	0.1641	0.1134	0.1233
Tl 190.794	2.1511	0.5739	-1.3125u
V 292.401	-0.5375u	-0.1580u	-0.0855u
Zn 206.200	15.3246	17.1460	16.6874

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2213	ppb	0.3694	166.9	-79.9500
Al 308.215	47.9544	ppb	1.3645	2.8	294.877
As 188.980	1.4206	ppb	4.9378	347.6	-5.7108
B 249.678	50.3479	ppb	0.7914	1.6	828.041
Ba 389.178	0.1896	ppb	0.2597	137.0	10.9087
Be 313.042	-0.0185	ppb	0.0019	10.4	-395.633
Ca 370.602	50889	ppb	52.08	0.1	163513
Cd 226.502	-0.0842	ppb	0.1140	135.4	33.7879
Co 228.615	0.1673	ppb	0.0172	10.3	9.7495
Cr 267.716	-0.2057	ppb	0.1177	57.2	6.8368
Cu 324.754	0.9492	ppb	0.1497	15.8	307.959
Fe 271.441	17.8027	ppb	3.3474	18.8	140.981
K 766.491	2797.57	ppb	3.8877	0.1	108188
Mg 279.078	357.458	ppb	3.5323	1.0	872.050
Mn 257.610	1.8949	ppb	0.0220	1.2	584.539
Mo 202.032	0.3177	ppb	0.5591	176.0	19.4757
Na 330.237	10634.0	ppb	79.1424	0.7	648.795
Ni 231.604	1.7252	ppb	1.0689	62.0	-0.4887
Pb 220.353	0.3770	ppb	0.7733	205.2	32.4253
Sb 206.834	0.7443	ppb	4.1533	558.0	4.5378
Se 196.026	0.0471	ppb	3.7337	7929.7	11.7892
Sn 189.925	1.2043	ppb	2.0389	169.3	-11.2310
Sr 216.596	837.274	ppb	2.4400	0.3	10795.3
Ti 334.941	0.1336	ppb	0.0269	20.1	0.1920
Tl 190.794	0.4708	ppb	1.7341	368.3	-15.1681
V 292.401	-0.2604	ppb	0.2428	93.2	-16.4378
Zn 206.200	16.3860	ppb	0.9474	279.8	35.8065

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Cont Calib Verif (CCV)                      5/8/2013, 8:36:13 AM                      Rack 4, Tube 1  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	471.472	471.735	467.121
Al 308.215	4671.55	4692.03	4674.51
As 188.980	471.825	476.497	494.295
B 249.678	485.744	490.070	489.844
Ba 389.178	4949.14	4970.21	4961.08
Be 313.042	494.931	497.378	495.733
Ca 370.602	4840	4872	4842
Cd 226.502	487.883	490.830	489.668
Co 228.615	500.918	502.790	501.041
Cr 267.716	4990.20	5023.11	4997.22
Cu 324.754	4931.00	4864.61	4880.98
Fe 271.441	4773.85	4784.05	4784.06
K 766.491	9875.79	9907.91	9939.36
Mg 279.078	4773.91	4799.99	4788.44
Mn 257.610	5068.24	5083.68	5076.05
Mo 202.032	474.319	476.600	475.477
Na 330.237	6789.66	6956.55	6832.74
Ni 231.604	2478.71	2493.49	2480.63
Pb 220.353	470.447	474.726	471.621
Sb 206.834	940.070	941.934	945.044
Se 196.026	4693.58	4707.94	4716.84
Sn 189.925	4793.21	4810.16	4828.74
Sr 216.596	2428.21	2440.17	2432.84
Ti 334.941	478.582	481.228	479.814
Tl 190.794	4808.13	4827.01	4843.12
V 292.401	4768.62	4784.19	4771.27
Zn 206.200	2484.91	2512.22	2501.24

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	470.109	ppb	2.5909	0.6	37938.2	94.02187
Al 308.215	4679.36	ppb	11.0726	0.2	21768.3	93.58729
As 188.980	480.872	ppb	11.8566	2.5	223.569	96.17448
B 249.678	488.553	ppb	2.4352	0.5	6748.13	19.54210Q
Ba 389.178	4960.14	ppb	10.5670	0.2	115280	99.20286
Be 313.042	496.014	ppb	1.2474	0.3	941322	99.20277
Ca 370.602	4851	ppb	18.00	0.4	15475	97.02533
Cd 226.502	489.460	ppb	1.4847	0.3	20348.0	97.89204
Co 228.615	501.583	ppb	1.0470	0.2	6796.68	100.31657
Cr 267.716	5003.51	ppb	17.3331	0.3	264316	100.07014
Cu 324.754	4892.20	ppb	34.5872	0.7	231051	97.84393
Fe 271.441	4780.65	ppb	5.8940	0.1	9160.24	95.61310
K 766.491	9907.69	ppb	31.7857	0.3	382209	99.07687
Mg 279.078	4787.45	ppb	13.0655	0.3	11103.9	95.74898
Mn 257.610	5075.99	ppb	7.7172	0.2	1357124	101.51981
Mo 202.032	475.466	ppb	1.1406	0.2	3893.33	95.09312
Na 330.237	6859.65	ppb	86.6373	1.3	417.528	91.46198
Ni 231.604	2484.28	ppb	8.0370	0.3	7703.12	99.37103
Pb 220.353	472.265	ppb	2.2107	0.5	1013.73	94.45292
Sb 206.834	942.349	ppb	2.5126	0.3	1225.50	94.23492
Se 196.026	4706.12	ppb	11.7373	0.2	2616.17	94.12239
Sn 189.925	4810.70	ppb	17.7714	0.4	4869.45	96.21408
Sr 216.596	2433.74	ppb	6.0289	0.2	31254.5	97.34961
Ti 334.941	479.875	ppb	1.3244	0.3	147456	95.97496
Tl 190.794	4826.09	ppb	17.5101	0.4	5338.15	96.52174
V 292.401	4774.69	ppb	8.3266	0.2	139493	95.49390
Zn 206.200	2499.46	ppb	13.7497	0.5	4058.48	99.97831



E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Blank (CCB) 5/8/2013, 8:41:41 AM Rack 4, Tube 2

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1585	-0.2800u	-0.0607u
Al 308.215	1.3692	1.2557	-2.7970u
As 188.980	-2.5192u	1.9428	3.9101
B 249.678	7.1875	6.6083	5.8988
Ba 389.178	-0.5944u	-0.1955u	0.1124
Be 313.042	-0.0002u	0.0068	0.0114
Ca 370.602	-5.295u	-1.273u	-3.164u
Cd 226.502	-0.0130u	-0.2200u	-0.0275u
Co 228.615	0.0876	-0.1608u	0.2569
Cr 267.716	-0.2260u	-0.0931u	-0.1442u
Cu 324.754	-0.0214u	0.2265	-0.6302u
Fe 271.441	0.7257	0.3296	0.2482
K 766.491	-2.5004u	-2.0709u	-2.2630u
Mg 279.078	-3.2047u	1.6198	0.9996
Mn 257.610	-0.0623u	-0.0633u	-0.0338u
Mo 202.032	0.1801	0.1743	-0.2003u
Na 330.237	-246.087u	-121.035u	-48.8412u
Ni 231.604	0.0155	0.0392	0.2609
Pb 220.353	0.0331	2.8512	0.1870
Sb 206.834	6.3325	6.2242	7.2667
Se 196.026	0.1286	5.3703	2.4792
Sn 189.925	-1.0415u	3.6648	2.2093
Sr 216.596	0.1242	0.2784	-0.0818u
Ti 334.941	0.0331	0.0840	-0.0140u
Tl 190.794	0.9527	-0.1464u	0.0672
V 292.401	0.0246	0.0163	0.2720
Zn 206.200	0.4828	0.4013	0.6606

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0607	ppb	0.2193	361.2	-25.9109	-0.06070
Al 308.215	-0.0574	ppb	2.3733	4137.2	72.0571	-0.05736
As 188.980	1.1112	ppb	3.2943	296.5	-6.1951	1.11124
B 249.678	6.5649	ppb	0.6454	9.8	235.904	6.56486
Ba 389.178	-0.2258	ppb	0.3544	156.9	0.2940	-0.22582
Be 313.042	0.0060	ppb	0.0058	97.8	-365.682	0.00598
Ca 370.602	-3.244	ppb	2.012	62.0	-2.736	-3.24370
Cd 226.502	-0.0869	ppb	0.1156	133.1	33.6722	-0.08685
Co 228.615	0.0612	ppb	0.2101	343.2	8.3232	0.06122
Cr 267.716	-0.1544	ppb	0.0671	43.4	9.3158	-0.15444
Cu 324.754	-0.1417	ppb	0.4409	311.1	256.473	-0.14170
Fe 271.441	0.4345	ppb	0.2554	58.8	108.566	0.43449
K 766.491	-2.2781	ppb	0.2152	9.4	282.780	-2.27809
Mg 279.078	-0.1951	ppb	2.6248	1345.3	38.7122	-0.19512
Mn 257.610	-0.0531	ppb	0.0167	31.5	59.6338	-0.05312
Mo 202.032	0.0513	ppb	0.2180	424.6	17.2985	0.05133
Na 330.237	-138.654	ppb	99.7960	72.0	61.3958	-138.65442
Ni 231.604	0.1052	ppb	0.1354	128.6	-5.5161	0.10522
Pb 220.353	1.0238	ppb	1.5845	154.8	33.7692	1.02375
Sb 206.834	6.6078	ppb	0.5732	8.7	11.7819	6.60779
Se 196.026	2.6594	ppb	2.6255	98.7	13.2334	2.65938
Sn 189.925	1.6109	ppb	2.4095	149.6	-10.8494	1.61086
Sr 216.596	0.1069	ppb	0.1807	169.0	21.6595	0.10693
Ti 334.941	0.0344	ppb	0.0490	142.7	-31.1620	0.03437
Tl 190.794	0.2912	ppb	0.5828	200.1	-15.3631	0.29118
V 292.401	0.1043	ppb	0.1453	139.3	-5.6039	0.10430
Zn 206.200	0.5149	ppb	0.1326	25.8	0.0701	0.51490

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**680-89980-a-1-aPDS (Samp) 5/8/2013, 8:47:09 AM Rack 4, Tube 3****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	47.8556	47.8477	48.5309
Al 308.215	2190.20	2200.04	2203.81
As 188.980	2100.83	2102.30	2102.05
B 249.678	1222.35	1229.19	1232.17
Ba 389.178	2030.80	2037.67	2033.55
Be 313.042	50.1865	50.2977	50.3713
Ca 370.602	256398	256083	255933
Cd 226.502	48.7998	49.2373	49.0311
Co 228.615	501.195	498.745	498.615
Cr 267.716	199.816	200.266	199.558
Cu 324.754	263.961	264.208	264.488
Fe 271.441	1049.74	1047.26	1043.75
K 766.491	21415.3	21527.8	21557.5
Mg 279.078	6639.30	6659.74	6647.26
Mn 257.610	523.529	523.397	523.802
Mo 202.032	495.237	498.200	496.546
Na 330.237	63343.6	63604.4	63107.7
Ni 231.604	490.636	490.790	490.091
Pb 220.353	471.102	475.797	472.388
Sb 206.834	486.905	487.086	490.411
Se 196.026	1947.55	1961.09	1957.74
Sn 189.925	991.648	990.817	985.441
Sr 216.596	4588.49	4594.65	4581.64
Ti 334.941	978.283	979.080	978.666
Tl 190.794	1950.39	1948.04	1958.02
V 292.401	480.730	481.393	481.307
Zn 206.200	562.438	558.870	557.473

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.0781	ppb	0.3922	0.8	3648.06
Al 308.215	2198.02	ppb	7.0287	0.3	10318.8
As 188.980	2101.72	ppb	0.7858	0.0	1001.86
B 249.678	1227.91	ppb	5.0366	0.4	16752.8
Ba 389.178	2034.01	ppb	3.4603	0.2	47285.5
Be 313.042	50.2852	ppb	0.0930	0.2	95099.9
Ca 370.602	256138	ppb	237.4	0.1	823088
Cd 226.502	49.0227	ppb	0.2189	0.4	2073.49
Co 228.615	499.518	ppb	1.4532	0.3	6768.16
Cr 267.716	199.880	ppb	0.3580	0.2	10577.4
Cu 324.754	264.219	ppb	0.2634	0.1	12738.2
Fe 271.441	1046.92	ppb	3.0109	0.3	2150.22
K 766.491	21500.2	ppb	75.0159	0.3	828980
Mg 279.078	6648.77	ppb	10.3041	0.2	15522.0
Mn 257.610	523.576	ppb	0.2068	0.0	140114
Mo 202.032	496.661	ppb	1.4847	0.3	4075.96
Na 330.237	63351.9	ppb	248.442	0.4	3511.24
Ni 231.604	490.506	ppb	0.3670	0.1	1516.25
Pb 220.353	473.096	ppb	2.4258	0.5	1013.79
Sb 206.834	488.134	ppb	1.9740	0.4	600.897
Se 196.026	1955.46	ppb	7.0510	0.4	1093.48
Sn 189.925	989.302	ppb	3.3694	0.3	991.625
Sr 216.596	4588.26	ppb	6.5104	0.1	59033.5
Ti 334.941	978.676	ppb	0.3988	0.0	300751
Tl 190.794	1952.15	ppb	5.2161	0.3	2151.70
V 292.401	481.143	ppb	0.3606	0.1	13988.2
Zn 206.200	559.594	ppb	2.5693	0.5	919.869

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**680-89980-a-1-b ms (Samp)      5/8/2013, 8:52:37 AM      Rack 4, Tube 4****Weight: 1      Volume: 1      Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.4478	50.0338	49.7088
Al 308.215	5139.88	5156.72	5179.50
As 188.980	103.965	105.293	117.061
B 249.678	461.752	463.165	466.707
Ba 389.178	111.648	112.338	112.193
Be 313.042	50.6151	50.8725	50.9686
Ca 370.602	263140	263978	263984
Cd 226.502	48.5555	48.9123	49.2150
Co 228.615	49.0713	49.6353	49.0734
Cr 267.716	99.4466	99.5987	99.6873
Cu 324.754	108.214	109.103	108.903
Fe 271.441	4746.81	4757.15	4763.10
K 766.491	21711.6	21891.7	21921.2
Mg 279.078	6520.05	6530.53	6548.78
Mn 257.610	517.213	518.230	519.372
Mo 202.032	95.9313	96.9774	96.4050
Na 330.237	65062.3	65278.8	65344.8
Ni 231.604	98.8189	100.116	98.7092
Pb 220.353	47.2373	49.8162	46.8696
Sb 206.834	52.2475	56.0260	47.7809
Se 196.026	93.6365	101.350	101.285
Sn 189.925	186.004	187.021	191.436
Sr 216.596	4282.83	4300.27	4304.06
Ti 334.941	96.2275	96.4121	96.7032
Tl 190.794	33.9337	40.7716	36.6936
V 292.401	96.1732	97.2168	96.7004
Zn 206.200	175.547	177.801	175.916

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.7302	ppb	0.2936	0.6	3793.34
Al 308.215	5158.70	ppb	19.8809	0.4	24018.6
As 188.980	108.773	ppb	7.2086	6.6	47.0728
B 249.678	463.875	ppb	2.5530	0.6	6414.52
Ba 389.178	112.060	ppb	0.3636	0.3	2633.70
Be 313.042	50.8187	ppb	0.1828	0.4	96195.3
Ca 370.602	263700	ppb	485.7	0.2	846916
Cd 226.502	48.8943	ppb	0.3301	0.7	2081.87
Co 228.615	49.2600	ppb	0.3250	0.7	672.372
Cr 267.716	99.5775	ppb	0.1217	0.1	5281.72
Cu 324.754	108.740	ppb	0.4663	0.4	5396.58
Fe 271.441	4755.69	ppb	8.2397	0.2	8989.08
K 766.491	21841.5	ppb	113.480	0.5	842133
Mg 279.078	6533.12	ppb	14.5387	0.2	15252.4
Mn 257.610	518.272	ppb	1.0800	0.2	138706
Mo 202.032	96.4379	ppb	0.5238	0.5	804.776
Na 330.237	65228.6	ppb	147.810	0.2	3622.52
Ni 231.604	99.2146	ppb	0.7823	0.8	302.145
Pb 220.353	47.9744	ppb	1.6056	3.3	131.398
Sb 206.834	52.0181	ppb	4.1273	7.9	68.0800
Se 196.026	98.7570	ppb	4.4346	4.5	66.5604
Sn 189.925	188.154	ppb	2.8879	1.5	178.620
Sr 216.596	4295.72	ppb	11.3199	0.3	55299.8
Ti 334.941	96.4476	ppb	0.2399	0.2	29626.0
Tl 190.794	37.1330	ppb	3.4400	9.3	24.4679
V 292.401	96.6968	ppb	0.5218	0.5	2799.10
Zn 206.200	176.421	ppb	1.2987	0.7	286.926

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**680-89980-a-1-c msd (Samp) 5/8/2013, 8:58:05 AM Rack 4, Tube 5****Weight: 1 Volume: 1 Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.4220	49.5044	49.1535
Al 308.215	5147.07	5174.52	5196.98
As 188.980	103.801	113.375	107.422
B 249.678	454.037	452.821	456.117
Ba 389.178	113.398	112.867	113.419
Be 313.042	50.9019	51.1026	51.3239
Ca 370.602	257737	259397	260135
Cd 226.502	49.0865	49.1094	49.5312
Co 228.615	49.8763	50.0046	50.1385
Cr 267.716	99.9909	99.8674	100.642
Cu 324.754	107.887	109.016	110.907
Fe 271.441	4775.34	4779.36	4786.71
K 766.491	21574.4	21641.2	21634.4
Mg 279.078	6519.94	6539.63	6551.47
Mn 257.610	520.178	521.356	522.589
Mo 202.032	96.0406	95.6944	96.9640
Na 330.237	64659.0	64309.0	64464.0
Ni 231.604	100.650	98.6617	98.4903
Pb 220.353	48.1383	49.5279	50.1922
Sb 206.834	52.1219	49.0950	49.4079
Se 196.026	90.2303	92.2032	102.321
Sn 189.925	188.693	188.202	187.470
Sr 216.596	4234.25	4231.43	4243.15
Ti 334.941	96.7164	96.6774	96.8511
Tl 190.794	33.5243	34.4605	40.3824
V 292.401	96.8140	97.0856	97.7538
Zn 206.200	173.847	174.829	176.364

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.3600	ppb	0.1835	0.4	3766.27
Al 308.215	5172.86	ppb	24.9961	0.5	24084.3
As 188.980	108.199	ppb	4.8344	4.5	46.7682
B 249.678	454.325	ppb	1.6667	0.4	6285.33
Ba 389.178	113.228	ppb	0.3128	0.3	2660.88
Be 313.042	51.1095	ppb	0.2111	0.4	96745.9
Ca 370.602	259090	ppb	1228	0.5	832100
Cd 226.502	49.2424	ppb	0.2504	0.5	2096.39
Co 228.615	50.0064	ppb	0.1311	0.3	682.464
Cr 267.716	100.167	ppb	0.4162	0.4	5312.85
Cu 324.754	109.270	ppb	1.5262	1.4	5421.61
Fe 271.441	4780.47	ppb	5.7665	0.1	9035.44
K 766.491	21616.7	ppb	36.7632	0.2	833469
Mg 279.078	6537.01	ppb	15.9281	0.2	15261.4
Mn 257.610	521.374	ppb	1.2053	0.2	139536
Mo 202.032	96.2330	ppb	0.6563	0.7	803.098
Na 330.237	64477.4	ppb	175.380	0.3	3581.55
Ni 231.604	99.2675	ppb	1.2007	1.2	302.310
Pb 220.353	49.2861	ppb	1.0481	2.1	134.126
Sb 206.834	50.2083	ppb	1.6646	3.3	65.8540
Se 196.026	94.9183	ppb	6.4868	6.8	64.4383
Sn 189.925	188.122	ppb	0.6153	0.3	178.585
Sr 216.596	4236.28	ppb	6.1168	0.1	54534.7
Ti 334.941	96.7483	ppb	0.0911	0.1	29718.5
Tl 190.794	36.1224	ppb	3.7188	10.3	23.3399
V 292.401	97.2178	ppb	0.4836	0.5	2814.31
Zn 206.200	175.013	ppb	1.2688	0.7	284.631

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680-89996-h-1-a (Samp) 5/8/2013, 9:03:44 AM Rack 4, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2771u	-0.3019u	0.2769
Al 308.215	49.6824	48.9027	50.5793
As 188.980	-4.3905u	4.2305	8.1907
B 249.678	71.6921	70.9146	70.7419
Ba 389.178	58.9483	58.1122	59.6673
Be 313.042	0.0041	-0.0054u	-0.0007
Ca 370.602	33569	33647	33622
Cd 226.502	-0.1397u	0.0133	-0.0369
Co 228.615	0.4159	1.0016	0.9331
Cr 267.716	-0.0476u	0.0876	-0.0626u
Cu 324.754	5.0778	5.5328	5.3393
Fe 271.441	953.144	952.229	962.841
K 766.491	6894.22	6906.94	6872.40
Mg 279.078	5881.51	5870.85	5880.74
Mn 257.610	95.1046	95.1082	95.1904
Mo 202.032	7.4728	6.9843	6.8198
Na 330.237	19577.0	19508.3	19389.4
Ni 231.604	2.0673	2.2095	3.0708
Pb 220.353	3.1482	2.4411	1.8977
Sb 206.834	0.1136	5.7975	0.1961
Se 196.026	-6.2019u	-5.7349u	-2.5788u
Sn 189.925	3.2477	0.9121	1.9265
Sr 216.596	173.530	173.716	173.175
Ti 334.941	0.8624	0.8423	0.8361
Tl 190.794	0.2316	-0.2445u	-0.1270u
V 292.401	0.1643	0.0953	0.0348u
Zn 206.200	34.1217	35.9065	34.5968

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1007	ppb	0.3273	324.9	-37.3413
Al 308.215	49.7214	ppb	0.8390	1.7	303.790
As 188.980	2.6769	ppb	6.4329	240.3	-5.2318
B 249.678	71.1162	ppb	0.5062	0.7	1107.67
Ba 389.178	58.9093	ppb	0.7783	1.3	1391.01
Be 313.042	-0.0007	ppb	0.0048	719.4	-370.443
Ca 370.602	33613	ppb	39.82	0.1	107929
Cd 226.502	-0.0544	ppb	0.0780	143.3	38.5517
Co 228.615	0.7836	ppb	0.3202	40.9	17.8049
Cr 267.716	-0.0075	ppb	0.0828	1099.5	18.1666
Cu 324.754	5.3166	ppb	0.2284	4.3	514.454
Fe 271.441	956.071	ppb	5.8807	0.6	1891.47
K 766.491	6891.19	ppb	17.4682	0.3	265954
Mg 279.078	5877.70	ppb	5.9474	0.1	13733.5
Mn 257.610	95.1344	ppb	0.0486	0.1	25565.4
Mo 202.032	7.0923	ppb	0.3396	4.8	74.8035
Na 330.237	19491.5	ppb	94.9151	0.5	1131.38
Ni 231.604	2.4492	ppb	0.5430	22.2	1.7809
Pb 220.353	2.4957	ppb	0.6270	25.1	36.8440
Sb 206.834	2.0357	ppb	3.2581	160.0	6.0486
Se 196.026	-4.8386	ppb	1.9709	40.7	9.1191
Sn 189.925	2.0288	ppb	1.1712	57.7	-10.3994
Sr 216.596	173.474	ppb	0.2748	0.2	2255.82
Ti 334.941	0.8469	ppb	0.0138	1.6	246.088
Tl 190.794	-0.0466	ppb	0.2480	531.8	-15.9518
V 292.401	0.0982	ppb	0.0648	66.0	-7.3385
Zn 206.200	34.8750	ppb	0.9244	2.7	560541

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**680-90006-c-3-a (Samp)**                      **5/8/2013, 9:09:13 AM**                      **Rack 4, Tube 7**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4148u	-0.3110u	-0.6500u
Al 308.215	336.338	336.903	334.360
As 188.980	23.9741	16.6121	21.9501
B 249.678	1946.77	1955.90	1966.51
Ba 389.178	15.4884	16.9122	15.4564
Be 313.042	0.3611u	0.3669u	0.3781u
Ca 370.602	26080	26084	26109
Cd 226.502	1.2971	1.2417	1.1134
Co 228.615	1.5692	1.1730	1.0189
Cr 267.716	0.8778	0.9551	0.8259
Cu 324.754	12.8468	13.1755	12.6285
Fe 271.441	151.715	147.231	143.626
K 766.491	50155.2x	50101.2x	50082.6x
Mg 279.078	2550.48	2560.92	2561.17
Mn 257.610	11.1144	11.0797	11.0706
Mo 202.032	175.036	176.921	177.248
Na 330.237	6501253x	6397898x	6438368x
Ni 231.604	2.6025	3.0871	3.2943
Pb 220.353	3.0685	2.6067	4.4074
Sb 206.834	3.0468	3.0838	3.4805
Se 196.026	42.9784	18.0618	28.0883
Sn 189.925	9.9465	13.0731	10.6468
Sr 216.596	74.1172	74.6037	74.5502
Ti 334.941	5.8551	5.8893	5.8691
Tl 190.794	-5.1867u	-4.1926u	-3.1614u
V 292.401	2.2036u	1.6808u	1.5763u
Zn 206.200	43.7776	44.4760	44.2623

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4586b	ppb	0.1737	37.9	-61.7511
Al 308.215	335.867b	ppb	1.3350	0.4	1650.08
As 188.980	20.8454b	ppb	3.8033	18.2	3.3924
B 249.678	1956.39b	ppb	9.8802	0.5	26606.7
Ba 389.178	15.9523b	ppb	0.8314	5.2	383.987
Be 313.042	0.3687b	ppb	0.0086	2.3	-450.333
Ca 370.602	26091b	ppb	15.96	0.1	83827
Cd 226.502	1.2174b	ppb	0.0942	7.7	48.2986
Co 228.615	1.2537b	ppb	0.2839	22.6	17.5354
Cr 267.716	0.8863b	ppb	0.0650	7.3	190.709
Cu 324.754	12.8836b	ppb	0.2754	2.1	875.753
Fe 271.441	147.524b	ppb	4.0528	2.7	383.335
K 766.491	50113.0xb	ppb	37.6926	0.1	1931707
Mg 279.078	2557.52b	ppb	6.1019	0.2	5998.29
Mn 257.610	11.0882b	ppb	0.0231	0.2	3022.42
Mo 202.032	176.402b	ppb	1.1939	0.7	1458.94
Na 330.237	6445840xb	ppb	52080.8	0.8	351621
Ni 231.604	2.9946b	ppb	0.3550	11.9	3.4537
Pb 220.353	3.3609b	ppb	0.9353	27.8	38.3365
Sb 206.834	3.2037b	ppb	0.2405	7.5	4.5975
Se 196.026	29.7095b	ppb	12.5371	42.2	28.1990
Sn 189.925	11.2221b	ppb	1.6408	14.6	1.7125
Sr 216.596	74.4237b	ppb	0.2668	0.4	972.906
Ti 334.941	5.8711b	ppb	0.0172	0.3	1224.09
Tl 190.794	-4.1803b	ppb	1.0127	24.2	-20.4426
V 292.401	1.8202b	ppb	0.3361	18.5	-47.6266
Zn 206.200	44.1720b	ppb	0.3579	0.8	371.090

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**680-90006-c-5-a (Samp)**                      **5/8/2013, 9:14:41 AM**                      **Rack 4, Tube 8**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3344u	-0.1776u	-0.1426u
Al 308.215	4191.45	4213.12	4193.22
As 188.980	9.2629	6.7267	-1.9224u
B 249.678	104.747	103.457	102.603
Ba 389.178	27.3507	28.0929	27.8921
Be 313.042	0.5450	0.5519	0.5447
Ca 370.602	22025	22104	22053
Cd 226.502	0.2105	0.1360	0.4061
Co 228.615	27.7210	28.3832	28.1096
Cr 267.716	0.0489	-0.0543	0.2947
Cu 324.754	5.2425	5.5908	5.5167
Fe 271.441	4583.41	4591.78	4576.49
K 766.491	4293.90	4283.11	4286.94
Mg 279.078	10685.4	10684.6	10637.6
Mn 257.610	408.918	408.948	407.862
Mo 202.032	0.1642	0.3204	-0.2176u
Na 330.237	106300x	105878x	105747x
Ni 231.604	16.4581	17.0705	15.7548
Pb 220.353	3.3664	4.2251	6.2851
Sb 206.834	0.8270	0.2567	-2.3021u
Se 196.026	-5.7852u	-6.3254u	5.4371
Sn 189.925	-1.6004u	1.2826	1.0264
Sr 216.596	146.972	146.312	146.065
Ti 334.941	-0.0699	-0.0817	-0.0433
Tl 190.794	-0.8789u	3.4161	-1.1683u
V 292.401	0.0432	0.0492	0.1969
Zn 206.200	83.7236	85.1897	83.0843

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2182b	ppb	0.1022	46.8	-44.0091
Al 308.215	4199.26b	ppb	12.0348	0.3	19557.5
As 188.980	4.6891b	ppb	5.8645	125.1	-4.3715
B 249.678	103.602b	ppb	1.0798	1.0	1542.12
Ba 389.178	27.7786b	ppb	0.3839	1.4	685.408
Be 313.042	0.5472b	ppb	0.0041	0.7	657.127
Ca 370.602	22061b	ppb	40.30	0.2	70522
Cd 226.502	0.2508b	ppb	0.1395	55.6	64.3003
Co 228.615	28.0713b	ppb	0.3327	1.2	386.704
Cr 267.716	0.0965b	ppb	0.1793	185.9	27.8360
Cu 324.754	5.4500b	ppb	0.1835	3.4	521.575
Fe 271.441	4583.89b	ppb	7.6556	0.2	8663.91
K 766.491	4287.98b	ppb	5.4698	0.1	165628
Mg 279.078	10669.2b	ppb	27.3624	0.3	24892.3
Mn 257.610	408.576b	ppb	0.6185	0.2	109415
Mo 202.032	0.0890b	ppb	0.2768	310.9	17.3468
Na 330.237	105975xb	ppb	288.950	0.3	5846.37
Ni 231.604	16.4278b	ppb	0.6584	4.0	45.2484
Pb 220.353	4.6255b	ppb	1.5000	32.4	41.4523
Sb 206.834	-0.4061b	ppb	1.6665	410.3	3.2643
Se 196.026	-2.2245b	ppb	6.6407	298.5	10.6758
Sn 189.925	0.2362b	ppb	1.5957	675.5	-12.1871
Sr 216.596	146.450b	ppb	0.4687	0.3	1909.09
Ti 334.941	-0.0650b	ppb	0.0197	30.3	-17.2004
Tl 190.794	0.4563b	ppb	2.5674	562.7	-16.0936
V 292.401	0.0964b	ppb	0.0871	90.3	-6.6052
Zn 206.200	83.9992b	ppb	1.0794	287.3	136.550

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**680-90011-a-1-a (Samp)**                      **5/8/2013, 9:20:09 AM**                      **Rack 4, Tube 9**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2361u	-0.3887u	-0.3258u
Al 308.215	16.4305	15.6418	15.7323
As 188.980	12.0882	11.4643	12.9750
B 249.678	34.0329	33.8807	33.5048
Ba 389.178	3.2555	4.0874	4.1497
Be 313.042	-0.0168u	-0.0134u	-0.0133u
Ca 370.602	50423	50436	50336
Cd 226.502	0.7452	0.7360	0.6299
Co 228.615	7.7714	6.9902	7.0284
Cr 267.716	1.2011	1.1331	1.2724
Cu 324.754	198.940	200.088	197.684
Fe 271.441	22.9360	26.2871	26.8312
K 766.491	3962.61	3964.27	3978.17
Mg 279.078	5614.66	5600.11	5608.37
Mn 257.610	877.560	879.428	876.797
Mo 202.032	2.3352	2.1191	3.2761
Na 330.237	111133x	110989x	111244x
Ni 231.604	65.6061	65.4635	63.9544
Pb 220.353	1.6145	-0.1017	0.6024
Sb 206.834	5.5642	5.8317	3.1469
Se 196.026	0.4769	6.4102	-2.7194u
Sn 189.925	-0.1956u	2.4062	1.4702
Sr 216.596	106.781	107.322	107.565
Ti 334.941	0.1340	0.1507	0.1536
Tl 190.794	2.2929	0.9915u	5.5972
V 292.401	13.9168	13.9881	14.3062
Zn 206.200	90.0431	91.3589	88.1319

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3169b	ppb	0.0767	24.2	-47.6501
Al 308.215	15.9348b	ppb	0.4316	2.7	146.327
As 188.980	12.1759b	ppb	0.7592	6.2	-0.5613
B 249.678	33.8061b	ppb	0.2718	0.8	604.309
Ba 389.178	3.8309b	ppb	0.4992	13.0	109.297
Be 313.042	-0.0145b	ppb	0.0020	13.8	-401.259
Ca 370.602	50398b	ppb	54.10	0.1	161959
Cd 226.502	0.7037b	ppb	0.0641	9.1	65.9361
Co 228.615	7.2633b	ppb	0.4404	6.1	105.574
Cr 267.716	1.2022b	ppb	0.0696	5.8	87.2021
Cu 324.754	198.904b	ppb	1.2025	0.6	9647.59
Fe 271.441	25.3515b	ppb	2.1094	8.3	156.378
K 766.491	3968.35b	ppb	8.5427	0.2	153309
Mg 279.078	5607.72b	ppb	7.2984	0.1	13090.4
Mn 257.610	877.928b	ppb	1.3539	0.2	234828
Mo 202.032	2.5768b	ppb	0.6152	23.9	37.9127
Na 330.237	111122xb	ppb	127.764	0.1	6128.76
Ni 231.604	65.0080b	ppb	0.9152	1.4	195.881
Pb 220.353	0.7051b	ppb	0.8627	122.4	33.3379
Sb 206.834	4.8476b	ppb	1.4789	30.5	9.5852
Se 196.026	1.3892b	ppb	4.6327	333.5	12.7747
Sn 189.925	1.2269b	ppb	1.3179	107.4	-11.1647
Sr 216.596	107.223b	ppb	0.4014	0.4	1404.13
Ti 334.941	0.1461b	ppb	0.0106	7.3	21.3841
Tl 190.794	2.9605b	ppb	2.3743	80.2	-13.8235
V 292.401	14.0704b	ppb	0.2073	1.5	402.192
Zn 206.200	89.8446b	ppb	1.6227	1.8	145.561



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700-76263-b-1-a (Samp) 5/8/2013, 9:25:36 AM Rack 4, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3755u	-0.3429u	0.0154
Al 308.215	28.3705	25.6968	25.0928
As 188.980	0.0037	6.6488	4.0370
B 249.678	10.2293	10.8333	10.6392
Ba 389.178	83.7727	82.2665	83.7150
Be 313.042	0.0905	0.0838	0.0842
Ca 370.602	1502	1501	1504
Cd 226.502	-0.0533u	0.0297	-0.0566u
Co 228.615	3.2122	2.5816	3.5038
Cr 267.716	0.0569	-0.0841u	-0.2836u
Cu 324.754	11.6535	11.1502	10.8909
Fe 271.441	38.2957	34.3342	34.5992
K 766.491	588.149	590.918	592.695
Mg 279.078	1970.09	1960.96	1969.29
Mn 257.610	104.037	104.179	104.175
Mo 202.032	-0.8190u	-0.2996u	-0.0142u
Na 330.237	6120.52	6101.74	6172.00
Ni 231.604	5.5712	6.4641	4.5618
Pb 220.353	7.3414	6.0024	8.2270
Sb 206.834	0.5488	4.7060	4.1414
Se 196.026	1.7521	-5.9462u	-0.6612u
Sn 189.925	3.2186	2.8953	-0.2602u
Sr 216.596	17.1977	17.1583	17.1714
Ti 334.941	0.2198	0.2446	0.1887
Tl 190.794	-0.2394u	-0.0781u	1.3221
V 292.401	-0.4757u	0.2112	-0.1723u
Zn 206.200	8.1992	7.5201	8.0808

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2344	ppb	0.2169	92.6	-40.3126
Al 308.215	26.3867	ppb	1.7443	6.6	194.712
As 188.980	3.5632	ppb	3.3478	94.0	-5.0105
B 249.678	10.5673	ppb	0.3084	2.9	289.989
Ba 389.178	83.2514	ppb	0.8534	1.0	1944.97
Be 313.042	0.0861	ppb	0.0038	4.4	-213.744
Ca 370.602	1502	ppb	1.802	0.1	4835
Cd 226.502	-0.0268	ppb	0.0489	182.7	36.2871
Co 228.615	3.0992	ppb	0.4713	15.2	49.4052
Cr 267.716	-0.1036	ppb	0.1711	165.1	12.6312
Cu 324.754	11.2315	ppb	0.3878	3.5	793.072
Fe 271.441	35.7430	ppb	2.2146	6.2	174.945
K 766.491	590.588	ppb	2.2911	0.4	23131.6
Mg 279.078	1966.78	ppb	5.0565	0.3	4620.20
Mn 257.610	104.130	ppb	0.0811	0.1	27930.1
Mo 202.032	-0.3776	ppb	0.4080	108.1	13.7907
Na 330.237	6131.42	ppb	36.3768	0.6	403.286
Ni 231.604	5.5324	ppb	0.9518	17.2	11.3255
Pb 220.353	7.1903	ppb	1.1200	15.6	46.6191
Sb 206.834	3.1321	ppb	2.2549	72.0	7.5019
Se 196.026	-1.6184	ppb	3.9374	243.3	10.8965
Sn 189.925	1.9513	ppb	1.9220	98.5	-10.5005
Sr 216.596	17.1758	ppb	0.0200	0.1	241.325
Ti 334.941	0.2177	ppb	0.0280	12.9	34.3770
Tl 190.794	0.3348	ppb	0.8588	256.5	-15.4851
V 292.401	-0.1456	ppb	0.3442	236.4	-12.8524
Zn 206.200	7.9334	ppb	0.3627	4.6	32.0280

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700-76263-b-2-a (Samp) 5/8/2013, 9:31:04 AM Rack 4, Tube 11

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4019u	-0.2180u	-0.1298u
Al 308.215	20.8716	21.3768	16.7956
As 188.980	8.1439	-4.2862u	8.2609
B 249.678	8.5998	8.6254	8.1524
Ba 389.178	76.4165	77.2769	77.9023
Be 313.042	0.0218	0.0280	0.0261
Ca 370.602	1623	1613	1630
Cd 226.502	-0.1006u	-0.2318u	-0.0698u
Co 228.615	-0.2404u	0.7954	0.1799
Cr 267.716	-0.2417u	-0.0280u	-0.1160u
Cu 324.754	0.8146	0.7490	0.7429
Fe 271.441	9.0389	1.6883	12.6281
K 766.491	606.227	606.556	614.774
Mg 279.078	2017.78	2012.58	2030.57
Mn 257.610	4.4117	4.3727	4.4540
Mo 202.032	-0.2450u	-0.3047u	-0.3725u
Na 330.237	6320.34	6193.87	6307.50
Ni 231.604	-0.7672u	-1.5962u	0.4270
Pb 220.353	1.6775	1.6214	2.6957
Sb 206.834	4.7237	1.4098	6.9676
Se 196.026	-5.2003u	3.7229	4.6818
Sn 189.925	1.6419	1.5799	1.7011
Sr 216.596	19.3865	18.4159	18.3659
Ti 334.941	-0.0194	-0.0207	0.0021
Tl 190.794	1.2560	-1.3905u	-1.0688u
V 292.401	-0.1261u	-0.0567u	-0.0292u
Zn 206.200	3.4151	3.1690	2.8447

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2499	ppb	0.1388	55.5	-42.1395
Al 308.215	19.6814	ppb	2.5118	12.8	163.600
As 188.980	4.0395	ppb	7.2105	178.5	-4.7813
B 249.678	8.4592	ppb	0.2660	3.1	261.518
Ba 389.178	77.1985	ppb	0.7460	1.0	1804.44
Be 313.042	0.0253	ppb	0.0032	12.5	-329.228
Ca 370.602	1622	ppb	8.837	0.5	5219
Cd 226.502	-0.1341	ppb	0.0860	64.2	31.7265
Co 228.615	0.2449	ppb	0.5209	212.7	10.8241
Cr 267.716	-0.1286	ppb	0.1074	83.5	10.8329
Cu 324.754	0.7689	ppb	0.0398	5.2	299.425
Fe 271.441	7.7851	ppb	5.5766	71.6	122.308
K 766.491	609.186	ppb	4.8425	0.8	23848.4
Mg 279.078	2020.31	ppb	9.2583	0.5	4746.69
Mn 257.610	4.4128	ppb	0.0406	0.9	1272.57
Mo 202.032	-0.3074	ppb	0.0638	20.8	14.3661
Na 330.237	6273.90	ppb	69.6073	1.1	411.110
Ni 231.604	-0.6455	ppb	1.0171	157.6	-7.8454
Pb 220.353	1.9982	ppb	0.6047	30.3	35.7977
Sb 206.834	4.3670	ppb	2.7960	64.0	9.0242
Se 196.026	1.0681	ppb	5.4498	510.2	12.3546
Sn 189.925	1.6410	ppb	0.0606	3.7	-10.8152
Sr 216.596	18.7228	ppb	0.5753	3.1	261.333
Ti 334.941	-0.0126	ppb	0.0128	101.2	-36.1566
Tl 190.794	-0.4011	ppb	1.4441	360.0	-16.1395
V 292.401	-0.0707	ppb	0.0499	70.6	-10.6625
Zn 206.200	3.1429	ppb	0.2861	9.1	4.2150

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

700-76263-b-3-a (Samp) 5/8/2013, 9:38:00 AM Rack 4, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0873u	-0.1575u	-0.1267u
Al 308.215	41.9824	42.9068	39.7469
As 188.980	2.1218	5.8151	-4.0084u
B 249.678	5.9796	5.3005	5.3859
Ba 389.178	7.7197	9.8685	9.9902
Be 313.042	-0.0037u	-0.0061u	0.0029
Ca 370.602	17727	17868	17877
Cd 226.502	-0.1965u	-0.0357u	-0.2614u
Co 228.615	-0.0749u	-0.1941u	0.2959
Cr 267.716	-0.0208u	-0.0677u	0.0087
Cu 324.754	2.7629	2.7159	2.5822
Fe 271.441	19.8097	24.9902	16.1644
K 766.491	478.860	482.939	482.621
Mg 279.078	933.239	935.552	941.231
Mn 257.610	1.6533	1.6323	1.6370
Mo 202.032	-0.2643u	-0.4217u	-0.2101u
Na 330.237	2576.76	2563.16	2522.02
Ni 231.604	0.7861	-0.9468u	1.2222
Pb 220.353	-0.3214u	1.4377	-1.5313u
Sb 206.834	-0.8032u	0.5865	-0.7423u
Se 196.026	0.9994	-3.2429u	-1.0929u
Sn 189.925	4.2265	-0.2411u	-0.3845u
Sr 216.596	15.5553	15.0453	15.9025
Ti 334.941	0.9498	0.9792	0.9396
Tl 190.794	2.2548	1.7122	-0.5712u
V 292.401	-0.0154u	0.2621	0.1842
Zn 206.200	2.2846	1.9729	3.4204

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1238	ppb	0.0352	28.4	-31.8056
Al 308.215	41.5454	ppb	1.6247	3.9	265.046
As 188.980	1.3095	ppb	4.9618	378.9	-5.9827
B 249.678	5.5553	ppb	0.3699	6.7	222.223
Ba 389.178	9.1928	ppb	1.2772	13.9	221.604
Be 313.042	-0.0023	ppb	0.0047	201.7	-375.446
Ca 370.602	17824	ppb	84.20	0.5	57273
Cd 226.502	-0.1645	ppb	0.1162	70.6	30.5273
Co 228.615	0.0090	ppb	0.2556	2848.9	7.6650
Cr 267.716	-0.0266	ppb	0.0385	144.7	16.1374
Cu 324.754	2.6870	ppb	0.0937	3.5	389.927
Fe 271.441	20.3214	ppb	4.4351	21.8	145.656
K 766.491	481.473	ppb	2.2690	0.5	18926.4
Mg 279.078	936.674	ppb	4.1123	0.4	2221.71
Mn 257.610	1.6409	ppb	0.0110	0.7	521.649
Mo 202.032	-0.2987	ppb	0.1099	36.8	14.4359
Na 330.237	2553.98	ppb	28.5028	1.1	208.218
Ni 231.604	0.3538	ppb	1.1473	324.2	-4.7441
Pb 220.353	-0.1383	ppb	1.4929	1079.3	31.3547
Sb 206.834	-0.3197	ppb	0.7854	245.7	3.2399
Se 196.026	-1.1121	ppb	2.1212	190.7	11.1480
Sn 189.925	1.2003	ppb	2.6218	218.4	-11.2557
Sr 216.596	15.5010	ppb	0.4312	2.8	221.865
Ti 334.941	0.9562	ppb	0.0206	2.2	256.550
Tl 190.794	1.1319	ppb	1.4997	132.5	-14.4332
V 292.401	0.1436	ppb	0.1431	99.6	-4.3504
Zn 206.200	2.5593	ppb	0.7618	29.8	372.649

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Verif (CCV) 5/8/2013, 9:43:28 AM Rack 4, Tube 13

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	477.985	469.698	477.936
Al 308.215	4759.92	4730.42	4741.38
As 188.980	465.952	477.998	483.633
B 249.678	485.865	482.743	492.174
Ba 389.178	5010.83	4977.23	5000.38
Be 313.042	501.564	497.646	499.526
Ca 370.602	4892	4858	4873
Cd 226.502	489.378	486.694	489.655
Co 228.615	501.289	501.000	501.807
Cr 267.716	5003.43	4979.48	4998.25
Cu 324.754	4938.08	4922.76	4987.19
Fe 271.441	4793.47	4767.98	4795.50
K 766.491	10031.4	9995.35	9967.05
Mg 279.078	4795.25	4768.13	4796.95
Mn 257.610	5092.60	5043.80	5078.64
Mo 202.032	478.741	476.630	478.479
Na 330.237	6803.10	6935.98	6957.92
Ni 231.604	2482.11	2468.30	2486.09
Pb 220.353	473.865	471.510	470.696
Sb 206.834	952.731	939.263	949.640
Se 196.026	4725.03	4691.82	4730.13
Sn 189.925	4801.45	4782.54	4828.42
Sr 216.596	2428.62	2416.09	2437.12
Ti 334.941	483.769	480.977	482.850
Tl 190.794	4825.01	4788.86	4830.40
V 292.401	4807.65	4773.76	4797.58
Zn 206.200	2490.26	2484.02	2496.33

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	475.206	ppb	4.7702	1.0	38351.0	95.04120
Al 308.215	4743.91	ppb	14.9124	0.3	22067.7	94.87814
As 188.980	475.861	ppb	9.0324	1.9	221.167	95.17221
B 249.678	486.927	ppb	4.8043	1.0	6726.13	19.47709Q
Ba 389.178	4996.15	ppb	17.1956	0.3	116117	99.92295
Be 313.042	499.579	ppb	1.9595	0.4	948091	99.91577
Ca 370.602	4874	ppb	17.01	0.3	15549	97.48918
Cd 226.502	488.576	ppb	1.6355	0.3	20311.4	97.71510
Co 228.615	501.365	ppb	0.4088	0.1	6793.80	100.27303
Cr 267.716	4993.72	ppb	12.6015	0.3	263799	99.87447
Cu 324.754	4949.35	ppb	33.6606	0.7	233747	98.98692
Fe 271.441	4785.65	ppb	15.3351	0.3	9169.77	95.71307
K 766.491	9997.94	ppb	32.2625	0.3	385688	99.97940
Mg 279.078	4786.78	ppb	16.1741	0.3	11102.4	95.73550
Mn 257.610	5071.68	ppb	25.1338	0.5	1355972	101.43362
Mo 202.032	477.950	ppb	1.1509	0.2	3913.59	95.59001
Na 330.237	6899.00	ppb	83.7707	1.2	419.742	91.98669
Ni 231.604	2478.84	ppb	9.3362	0.4	7686.24	99.15345
Pb 220.353	472.024	ppb	1.6460	0.3	1013.22	94.40474
Sb 206.834	947.211	ppb	7.0546	0.7	1231.53	94.72115
Se 196.026	4715.66	ppb	20.8057	0.4	2621.44	94.31320
Sn 189.925	4804.14	ppb	23.0541	0.5	4862.79	96.08276
Sr 216.596	2427.28	ppb	10.5829	0.4	31171.5	97.09106
Ti 334.941	482.532	ppb	1.4227	0.3	148273	96.50644
Tl 190.794	4814.76	ppb	22.5873	0.5	5325.58	96.29517
V 292.401	4793.00	ppb	17.4036	0.4	140029	95.85992
Zn 206.200	2490.20	ppb	6.1510	0.2	4043.39	99.60818

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Blank (CCB) 5/8/2013, 9:48:56 AM Rack 4, Tube 14

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2347u	0.2202	-0.0338u
Al 308.215	-2.2010u	-1.1727u	-5.4531u
As 188.980	2.3746	-2.4923u	1.9080
B 249.678	6.7281	5.7068	5.3088
Ba 389.178	-0.9426u	-0.3773u	-0.4933u
Be 313.042	0.0064	0.0008	-0.0036u
Ca 370.602	-1.877u	0.0752	2.597
Cd 226.502	-0.0693u	-0.0900u	-0.2882u
Co 228.615	0.3724	0.0281	0.1359
Cr 267.716	-0.2008u	-0.0945u	-0.3160u
Cu 324.754	-0.3608u	-0.5771u	0.1691
Fe 271.441	-0.2973u	-2.6383u	-6.3686u
K 766.491	-1.9274u	-2.1882u	-2.2458u
Mg 279.078	-5.6012u	-2.3656u	-2.8530u
Mn 257.610	-0.1565u	-0.1364u	-0.1212u
Mo 202.032	0.3070	0.4055	0.2794
Na 330.237	-238.605u	-214.310u	-67.0812u
Ni 231.604	0.1585	-0.4350u	1.3525
Pb 220.353	0.7958	-0.1521u	-1.8428u
Sb 206.834	5.1016	5.1946	5.6036
Se 196.026	1.2838	-2.0233u	4.3154
Sn 189.925	0.0536	-1.4579u	3.7851
Sr 216.596	0.2120	-0.0731u	0.2673
Ti 334.941	0.0496	-0.0160u	0.0759
Tl 190.794	4.1612	6.0412	3.1847
V 292.401	0.0611	-0.0450u	0.2482
Zn 206.200	1.2438	-0.0193u	0.4313

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0161	ppb	0.2280	1417.0	-22.3124	-0.01609
Al 308.215	-2.9423	ppb	2.2344	75.9	58.6744	-2.94227
As 188.980	0.5968	ppb	2.6854	450.0	-6.4416	0.59675
B 249.678	5.9146	ppb	0.7321	12.4	227.115	5.91457
Ba 389.178	-0.6044	ppb	0.2986	49.4	-8.5175	-0.60439
Be 313.042	0.0012	ppb	0.0050	416.9	-374.744	0.00121
Ca 370.602	0.2650	ppb	2.243	846.2	8.870	0.26504
Cd 226.502	-0.1492	ppb	0.1209	81.0	31.0738	-0.14917
Co 228.615	0.1788	ppb	0.1761	98.5	9.9113	0.17880
Cr 267.716	-0.2037	ppb	0.1107	54.4	6.7092	-0.20374
Cu 324.754	-0.2563	ppb	0.3840	149.8	251.068	-0.25626
Fe 271.441	-3.1014	ppb	3.0621	98.7	101.988	-3.10141
K 766.491	-2.1205	ppb	0.1697	8.0	288.855	-2.12045
Mg 279.078	-3.6066	ppb	1.7445	48.4	30.7637	-3.60661
Mn 257.610	-0.1380	ppb	0.0177	12.8	36.8896	-0.13802
Mo 202.032	0.3306	ppb	0.0663	20.1	19.5819	0.33062
Na 330.237	-173.332	ppb	92.8144	53.5	59.5052	-173.33217
Ni 231.604	0.3587	ppb	0.9104	253.8	-4.7297	0.35867
Pb 220.353	-0.3997	ppb	1.3366	334.4	30.8094	-0.39969
Sb 206.834	5.2999	ppb	0.2671	5.0	10.1658	5.29991
Se 196.026	1.1919	ppb	3.1704	266.0	12.4218	1.19195
Sn 189.925	0.7936	ppb	2.6987	340.1	-11.6788	0.79360
Sr 216.596	0.1354	ppb	0.1827	134.9	22.0188	0.13543
Ti 334.941	0.0365	ppb	0.0473	129.7	-30.5254	0.03648
Tl 190.794	4.4624	ppb	1.4519	32.5	-10.7303	4.46237
V 292.401	0.0881	ppb	0.1484	168.5	-6.0814	0.08808
Zn 206.200	0.5519	ppb	0.6401	116.0	0.0100	0.55193

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

700-76263-b-4-a (Samp) 5/8/2013, 9:54:24 AM Rack 4, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5907u	0.0895	-0.1104u
Al 308.215	37.6758	37.5017	37.6344
As 188.980	1.1849	6.2958	-4.4323u
B 249.678	8.1398	7.8773	7.0545
Ba 389.178	9.4943	8.9158	10.3917
Be 313.042	0.0066	0.0066	0.0083
Ca 370.602	13694	13713	13620
Cd 226.502	-0.1850u	-0.1917u	-0.1117u
Co 228.615	0.5762	-0.1012u	0.3712
Cr 267.716	0.0778	0.0802	-0.1369u
Cu 324.754	4.4800	3.3385	3.7325
Fe 271.441	26.7136	31.6314	34.8924
K 766.491	472.819	473.638	469.239
Mg 279.078	858.107	862.904	858.641
Mn 257.610	3.3030	3.2961	3.3208
Mo 202.032	0.1814	0.2753	-0.4262u
Na 330.237	2677.84	2951.28	2797.95
Ni 231.604	-0.9479u	0.4210	-0.7826u
Pb 220.353	2.1805	0.7498	0.5262
Sb 206.834	0.1412	4.8188	2.2606
Se 196.026	0.9971	4.2907	1.3555
Sn 189.925	1.3246	2.9953	-1.6167u
Sr 216.596	14.4981	13.7183	14.1894
Ti 334.941	1.3748	1.4273	1.4066
Tl 190.794	3.5773	2.7148	-0.2764u
V 292.401	-0.1146u	-0.0161u	-0.4614u
Zn 206.200	2.6599	2.1282	3.0733

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2039	ppb	0.3496	171.5	-38.2055
Al 308.215	37.6040	ppb	0.0909	0.2	246.791
As 188.980	1.0162	ppb	5.3660	528.1	-6.1506
B 249.678	7.6905	ppb	0.5662	7.4	251.087
Ba 389.178	9.6006	ppb	0.7437	7.7	230.896
Be 313.042	0.0071	ppb	0.0010	13.7	-359.002
Ca 370.602	13676	ppb	48.85	0.4	43946
Cd 226.502	-0.1628	ppb	0.0444	27.3	30.6356
Co 228.615	0.2821	ppb	0.3474	123.1	11.3589
Cr 267.716	0.0070	ppb	0.1247	1775.1	17.9347
Cu 324.754	3.8503	ppb	0.5798	15.1	444.826
Fe 271.441	31.0791	ppb	4.1173	13.2	165.768
K 766.491	471.899	ppb	2.3398	0.5	18557.4
Mg 279.078	859.884	ppb	2.6291	0.3	2042.76
Mn 257.610	3.3066	ppb	0.0128	0.4	966.217
Mo 202.032	0.0102	ppb	0.3808	3744.2	16.9608
Na 330.237	2809.02	ppb	137.056	4.9	222.119
Ni 231.604	-0.4365	ppb	0.7472	171.2	-7.1963
Pb 220.353	1.1521	ppb	0.8976	77.9	34.0373
Sb 206.834	2.4069	ppb	2.3422	97.3	6.6023
Se 196.026	2.2144	ppb	1.8070	81.6	12.9885
Sn 189.925	0.9011	ppb	2.3350	259.1	-11.5613
Sr 216.596	14.1353	ppb	0.3927	2.8	203.805
Ti 334.941	1.4029	ppb	0.0265	1.9	393.425
Tl 190.794	2.0052	ppb	2.0224	100.9	-13.4669
V 292.401	-0.1974	ppb	0.2339	118.5	-14.3970
Zn 206.200	2.6205	ppb	0.4738	18.1	373656

700-76263-b-5-a (Samp) 5/8/2013, 9:59:52 AM Rack 4, Tube 16

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1297	-0.0465u	-0.1094u
Al 308.215	26.2582	26.9494	26.7927
As 188.980	0.5617	4.7554	-2.8199u
B 249.678	6.0779	6.4090	5.6398
Ba 389.178	33.1263	33.6007	32.9432
Be 313.042	0.0075	0.0181	0.0166
Ca 370.602	1452	1455	1448
Cd 226.502	-0.1948u	0.0199	-0.1304u
Co 228.615	0.7069	0.7545	1.3496
Cr 267.716	-0.1069u	-0.1742u	-0.1766u
Cu 324.754	2.6737	2.8758	2.8993
Fe 271.441	6.3073	2.6466	7.5848
K 766.491	412.594	410.394	410.633
Mg 279.078	1753.62	1746.47	1751.01
Mn 257.610	6.7474	6.7297	6.7766
Mo 202.032	-0.3543u	-0.5080u	0.5034
Na 330.237	7818.26	7623.52	7517.23
Ni 231.604	0.3787	0.0056	0.0982
Pb 220.353	0.4282	1.4506	0.6244
Sb 206.834	0.5660	-2.0215u	4.2027
Se 196.026	-5.9357u	-1.1899u	-4.2005u
Sn 189.925	3.5113	1.4585	-2.9237u
Sr 216.596	16.4420	16.2951	16.6447
Ti 334.941	-0.0279u	-0.0659u	-0.0155
Tl 190.794	2.3094	-2.0846u	-0.8456u
V 292.401	0.0064	-0.2057u	-0.2044u
Zn 206.200	3.5655	4.4668	3.4398

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0087	ppb	0.1239	1420.3	-22.5172
Al 308.215	26.6668	ppb	0.3624	1.4	196.042
As 188.980	0.8324	ppb	3.7949	455.9	-6.3191
B 249.678	6.0422	ppb	0.3859	6.4	228.830
Ba 389.178	33.2234	ppb	0.3393	1.0	782.036
Be 313.042	0.0141	ppb	0.0057	40.7	-350.724
Ca 370.602	1452	ppb	3.478	0.2	4672
Cd 226.502	-0.1018	ppb	0.1102	108.2	33.0484
Co 228.615	0.9370	ppb	0.3581	38.2	20.1665
Cr 267.716	-0.1526	ppb	0.0396	25.9	9.6034
Cu 324.754	2.8163	ppb	0.1240	4.4	396.031
Fe 271.441	5.5129	ppb	2.5632	46.5	118.184
K 766.491	411.207	ppb	1.2071	0.3	16218.3
Mg 279.078	1750.37	ppb	3.6211	0.2	4117.65
Mn 257.610	6.7512	ppb	0.0237	0.4	1895.16
Mo 202.032	-0.1196	ppb	0.5450	455.6	15.9011
Na 330.237	7653.01	ppb	152.666	2.0	486.321
Ni 231.604	0.1608	ppb	0.1943	120.8	-5.3434
Pb 220.353	0.8344	ppb	0.5426	65.0	33.3780
Sb 206.834	0.9157	ppb	3.1268	341.4	4.7585
Se 196.026	-3.7754	ppb	2.4013	63.6	9.6763
Sn 189.925	0.6820	ppb	3.2870	481.9	-11.7878
Sr 216.596	16.4606	ppb	0.1756	1.1	232.185
Ti 334.941	-0.0364	ppb	0.0262	72.0	-44.9103
Tl 190.794	-0.2069	ppb	2.2655	1094.8	-15.9273
V 292.401	-0.1345	ppb	0.1221	90.8	-12.6033
Zn 206.200	3.8240	ppb	0.5692	14.6	5.3253

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700-76263-b-6-a (Samp) 5/8/2013, 10:05:20 AM Rack 4, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0091u	-0.2955u	-0.3493u
Al 308.215	21.8077	22.7169	22.6885
As 188.980	-8.9317u	-2.5954u	-6.0881u
B 249.678	5.2830	5.4560	5.3289
Ba 389.178	63.6053	63.7053	63.2612
Be 313.042	0.0298	0.0308	0.0291
Ca 370.602	1535	1541	1545
Cd 226.502	-0.1958u	-0.1192u	-0.1452u
Co 228.615	0.5926	0.7698	0.2662
Cr 267.716	-0.0486u	-0.2556u	-0.1907u
Cu 324.754	2.7338	2.8596	2.7338
Fe 271.441	8.7442	5.3325	3.2477
K 766.491	564.946	566.765	570.387
Mg 279.078	1927.05	1931.71	1937.11
Mn 257.610	14.5339	14.6304	14.6606
Mo 202.032	0.0071	-0.3982u	-0.0587u
Na 330.237	5387.00	5337.05	5684.00
Ni 231.604	1.2369	1.5604	2.1488
Pb 220.353	2.5782	2.1561	1.5781
Sb 206.834	-1.1439u	6.1662	2.9535
Se 196.026	6.1644	3.3777	6.3405
Sn 189.925	-0.3055u	2.0530	0.6869
Sr 216.596	17.4452	17.5515	17.9518
Ti 334.941	0.0026	-0.0389u	-0.0248
Tl 190.794	-0.6058u	1.8755	0.4005
V 292.401	-0.0586u	-0.1743u	-0.0466u
Zn 206.200	2.7142	3.4943	3.0717

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2180	ppb	0.1829	83.9	-39.4522
Al 308.215	22.4044	ppb	0.5169	2.3	176.250
As 188.980	-5.8717	ppb	3.1737	54.1	-9.5307
B 249.678	5.3560	ppb	0.0896	1.7	219.548
Ba 389.178	63.5240	ppb	0.2330	0.4	1486.51
Be 313.042	0.0299	ppb	0.0009	2.9	-320.410
Ca 370.602	1540	ppb	5.500	0.4	4957
Cd 226.502	-0.1534	ppb	0.0389	25.4	30.9270
Co 228.615	0.5429	ppb	0.2555	47.1	14.8456
Cr 267.716	-0.1649	ppb	0.1059	64.2	8.9449
Cu 324.754	2.7757	ppb	0.0726	2.6	394.115
Fe 271.441	5.7748	ppb	2.7748	48.0	118.605
K 766.491	567.366	ppb	2.7699	0.5	22236.7
Mg 279.078	1931.95	ppb	5.0351	0.3	4540.63
Mn 257.610	14.6083	ppb	0.0662	0.5	3997.36
Mo 202.032	-0.1499	ppb	0.2175	145.0	15.6532
Na 330.237	5469.35	ppb	187.563	3.4	367.230
Ni 231.604	1.6487	ppb	0.4623	28.0	-0.7265
Pb 220.353	2.1041	ppb	0.5021	23.9	36.0205
Sb 206.834	2.6586	ppb	3.6639	137.8	6.9121
Se 196.026	5.2942	ppb	1.6621	31.4	14.6949
Sn 189.925	0.8115	ppb	1.1841	145.9	-11.6574
Sr 216.596	17.6495	ppb	0.2672	1.5	247.472
Ti 334.941	-0.0204	ppb	0.0211	103.5	-38.8911
Tl 190.794	0.5567	ppb	1.2480	224.2	-15.0922
V 292.401	-0.0932	ppb	0.0705	75.7	-11.3434
Zn 206.200	3.0934	ppb	0.3995	12.9	37.1343



E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**700-76263-b-6-b ms (Samp)      5/8/2013, 10:10:47 AM      Rack 4, Tube 18****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	47.2781	47.6122	47.6946
Al 308.215	4673.57	4649.80	4623.90
As 188.980	102.679	93.7940	94.5530
B 249.678	187.741	187.366	188.756
Ba 389.178	164.490	163.872	164.659
Be 313.042	50.2854	50.0793	50.0185
Ca 370.602	6232	6200	6196
Cd 226.502	48.4910	48.7306	48.3952
Co 228.615	49.5955	49.3725	50.0952
Cr 267.716	98.5497	98.0624	98.4048
Cu 324.754	103.024	100.833	102.550
Fe 271.441	4650.96	4632.50	4629.22
K 766.491	5426.87	5407.75	5438.40
Mg 279.078	6681.93	6643.99	6673.40
Mn 257.610	520.375	518.133	519.326
Mo 202.032	94.2034	92.7731	92.5787
Na 330.237	10506.6	10357.6	10359.3
Ni 231.604	96.9320	95.8209	96.7560
Pb 220.353	49.5608	46.7637	46.5133
Sb 206.834	49.2289	42.4087	44.4942
Se 196.026	91.4325	88.5957	89.7363
Sn 189.925	183.734	189.521	187.094
Sr 216.596	113.538	113.246	113.397
Ti 334.941	94.1102	93.7431	94.0159
Tl 190.794	40.2459	36.3668	40.7710
V 292.401	94.9489	94.4226	95.4980
Zn 206.200	100.406	100.212	101.714

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.5283	ppb	0.2206	0.5	3820.53
Al 308.215	4649.09	ppb	24.8446	0.5	21653.6
As 188.980	97.0088	ppb	4.9254	5.1	39.7372
B 249.678	187.954	ppb	0.7193	0.4	2682.88
Ba 389.178	164.340	ppb	0.4143	0.3	3848.55
Be 313.042	50.1277	ppb	0.1399	0.3	94800.0
Ca 370.602	6209	ppb	20.01	0.3	19609
Cd 226.502	48.5390	ppb	0.1728	0.4	2067.05
Co 228.615	49.6877	ppb	0.3701	0.7	678.199
Cr 267.716	98.3390	ppb	0.2502	0.3	5215.21
Cu 324.754	102.136	ppb	1.1528	1.1	5084.89
Fe 271.441	4637.56	ppb	11.7190	0.3	8768.76
K 766.491	5424.34	ppb	15.4779	0.3	209423
Mg 279.078	6666.44	ppb	19.9040	0.3	15563.1
Mn 257.610	519.278	ppb	1.1217	0.2	138973
Mo 202.032	93.1851	ppb	0.8873	1.0	778.195
Na 330.237	10407.8	ppb	85.5516	0.8	633.290
Ni 231.604	96.5030	ppb	0.5972	0.6	293.728
Pb 220.353	47.6126	ppb	1.6918	3.6	130.641
Sb 206.834	45.3773	ppb	3.4948	7.7	59.9127
Se 196.026	89.9215	ppb	1.4274	1.6	61.6730
Sn 189.925	186.783	ppb	2.9055	1.6	177.072
Sr 216.596	113.394	ppb	0.1463	0.1	1476.30
Ti 334.941	93.9564	ppb	0.1906	0.2	28865.8
Tl 190.794	39.1279	ppb	2.4055	6.1	26.6894
V 292.401	94.9565	ppb	0.5378	0.6	2749.31
Zn 206.200	100.777	ppb	0.8166	0.8	107.595

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**700-76263-b-6-c msd (Samp) 5/8/2013, 10:16:27 AM Rack 4, Tube 19****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	47.8776	46.5080	47.5310
Al 308.215	4680.05	4674.31	4652.03
As 188.980	97.8599	100.014	102.746
B 249.678	190.740	191.445	193.797
Ba 389.178	165.043	166.559	167.154
Be 313.042	50.3036	50.4721	50.3225
Ca 370.602	6264	6277	6253
Cd 226.502	48.7303	48.7004	48.5732
Co 228.615	50.2195	49.8759	49.8383
Cr 267.716	98.4164	99.0422	99.4424
Cu 324.754	103.390	103.151	102.159
Fe 271.441	4656.02	4672.95	4669.66
K 766.491	5433.74	5474.80	5450.41
Mg 279.078	6721.94	6732.47	6745.57
Mn 257.610	520.106	521.581	522.102
Mo 202.032	93.2392	94.2368	93.4272
Na 330.237	10657.1	10517.7	10532.7
Ni 231.604	96.4638	96.9356	96.3526
Pb 220.353	50.5685	48.4762	46.1442
Sb 206.834	47.3740	48.3312	48.8739
Se 196.026	85.9877	95.1909	90.6473
Sn 189.925	190.259	183.379	186.966
Sr 216.596	114.779	113.820	114.974
Ti 334.941	94.1144	94.4827	94.6994
Tl 190.794	37.2560	38.3144	37.3919
V 292.401	95.0904	95.2524	95.4592
Zn 206.200	99.9438	102.548	102.170

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.3056	ppb	0.7121	1.5	3802.49
Al 308.215	4668.80	ppb	14.7977	0.3	21745.0
As 188.980	100.207	ppb	2.4489	2.4	41.2695
B 249.678	191.994	ppb	1.6006	0.8	2737.47
Ba 389.178	166.252	ppb	1.0885	0.7	3893.19
Be 313.042	50.3661	ppb	0.0923	0.2	95252.5
Ca 370.602	6265	ppb	12.29	0.2	19784
Cd 226.502	48.6680	ppb	0.0834	0.2	2072.51
Co 228.615	49.9779	ppb	0.2101	0.4	682.125
Cr 267.716	98.9670	ppb	0.5171	0.5	5248.40
Cu 324.754	102.900	ppb	0.6526	0.6	5120.96
Fe 271.441	4666.21	ppb	8.9771	0.2	8822.27
K 766.491	5452.98	ppb	20.6519	0.4	210527
Mg 279.078	6733.33	ppb	11.8377	0.2	15719.0
Mn 257.610	521.263	ppb	1.0354	0.2	139504
Mo 202.032	93.6344	ppb	0.5301	0.6	781.866
Na 330.237	10569.2	ppb	76.5112	0.7	642.070
Ni 231.604	96.5840	ppb	0.3096	0.3	293.980
Pb 220.353	48.3963	ppb	2.2132	4.6	132.270
Sb 206.834	48.1930	ppb	0.7594	1.6	63.3951
Se 196.026	90.6086	ppb	4.6018	5.1	62.0538
Sn 189.925	186.868	ppb	3.4408	1.8	177.158
Sr 216.596	114.524	ppb	0.6179	0.5	1490.86
Ti 334.941	94.4322	ppb	0.2957	0.3	29012.3
Tl 190.794	37.6541	ppb	0.5759	1.5	25.0478
V 292.401	95.2673	ppb	0.1848	0.2	2758.33
Zn 206.200	101.554	ppb	1.4072	1.4	164.863

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mb 680-275899/1-a (Samp) 5/8/2013, 10:21:55 AM Rack 4, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0776	0.0186	-0.5062u
Al 308.215	1.4145	0.8725	-1.7289u
As 188.980	1.8485	-5.0960u	3.0860
B 249.678	2.1756	1.7625	1.0598
Ba 389.178	-0.5415u	-0.5324u	0.1329
Be 313.042	-0.0020u	-0.0032u	0.0068
Ca 370.602	0.8736	-5.066u	1.514
Cd 226.502	-0.1209u	-0.0990u	-0.0788u
Co 228.615	0.3715	0.2494	-0.2601u
Cr 267.716	-0.1846u	-0.2648u	-0.2100u
Cu 324.754	-0.4203u	-0.0312u	-0.0578u
Fe 271.441	-6.8814u	-5.1520u	1.4618
K 766.491	-2.9094u	-2.5076u	-2.7541u
Mg 279.078	-1.1856u	-2.3977u	-3.3193u
Mn 257.610	-0.1643u	-0.1320u	-0.1318u
Mo 202.032	0.3891	-0.2182u	-0.0731u
Na 330.237	-176.587u	-118.595u	-116.372u
Ni 231.604	0.3771	0.0161	0.4191
Pb 220.353	1.1164	0.4817	2.4991
Sb 206.834	2.8485	2.1289	3.2963
Se 196.026	-8.2673u	-0.1877u	-4.1737u
Sn 189.925	-0.6622u	0.2859	1.4671
Sr 216.596	-0.1733u	-0.6553u	-0.3279u
Ti 334.941	-0.0384u	-0.0529u	0.0204
Tl 190.794	-1.6589u	2.1035	2.0377
V 292.401	0.0064	0.1459	-0.5024u
Zn 206.200	0.8258	1.5727	1.4067

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1367	ppb	0.3214	235.1	-32.0384
Al 308.215	0.1860	ppb	1.6804	903.2	73.1623
As 188.980	-0.0538	ppb	4.4102	8194.7	-6.7532
B 249.678	1.6660	ppb	0.5641	33.9	169.651
Ba 389.178	-0.3137	ppb	0.3868	123.3	-1.7595
Be 313.042	0.0005	ppb	0.0054	1064.9	-376.014
Ca 370.602	-0.8928	ppb	3.628	406.4	4.998
Cd 226.502	-0.0996	ppb	0.0211	21.2	33.1370
Co 228.615	0.1203	ppb	0.3350	278.6	9.1305
Cr 267.716	-0.2198	ppb	0.0410	18.6	5.8633
Cu 324.754	-0.1698	ppb	0.2174	128.0	255.142
Fe 271.441	-3.5239	ppb	4.4035	125.0	101.187
K 766.491	-2.7237	ppb	0.2026	7.4	265.606
Mg 279.078	-2.3009	ppb	1.0701	46.5	33.8068
Mn 257.610	-0.1427	ppb	0.0187	13.1	35.6613
Mo 202.032	0.0326	ppb	0.3172	972.7	17.1460
Na 330.237	-137.184	ppb	34.1414	24.9	61.4711
Ni 231.604	0.2707	ppb	0.2216	81.8	-5.0025
Pb 220.353	1.3657	ppb	1.0316	75.5	34.4806
Sb 206.834	2.7579	ppb	0.5889	21.4	7.0320
Se 196.026	-4.2095	ppb	4.0399	96.0	9.4342
Sn 189.925	0.3636	ppb	1.0667	293.4	-12.1151
Sr 216.596	-0.3855	ppb	0.2461	63.8	15.3226
Ti 334.941	-0.0236	ppb	0.0388	164.2	-48.9939
Tl 190.794	0.8274	ppb	2.1535	260.3	-14.7673
V 292.401	-0.1167	ppb	0.3412	292.4	-12.0229
Zn 206.200	1.2684	ppb	0.3922	30.9	31.1583

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llcs 680-275899/2-a (Samp) 5/8/2013, 10:27:23 AM Rack 4, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.5216	9.3380	9.1997
Al 308.215	190.439	193.228	186.106
As 188.980	18.9941	19.3105	23.2097
B 249.678	92.9047	93.6295	91.8260
Ba 389.178	9.1976	9.7770	9.8201
Be 313.042	4.1244	4.1445	4.0670
Ca 370.602	481.8	486.1	473.5
Cd 226.502	4.9734	4.9447	4.7563
Co 228.615	9.9382	9.7880	10.5327
Cr 267.716	10.0720	9.9776	9.9892
Cu 324.754	20.6115	19.9220	20.4125
Fe 271.441	50.6423	46.5187	50.2013
K 766.491	992.138	993.821	974.150
Mg 279.078	485.659	488.692	476.249
Mn 257.610	10.9535	10.9984	10.8608
Mo 202.032	9.4294	9.0630	9.4669
Na 330.237	756.376	834.093	857.946
Ni 231.604	39.2373	39.5964	38.1727
Pb 220.353	10.6582	11.7825	7.8518
Sb 206.834	21.9514	21.8322	21.6532
Se 196.026	18.2452	29.1069	14.3816
Sn 189.925	49.4367	48.6827	45.4329
Sr 216.596	9.7248	9.9104	9.6112
Ti 334.941	9.6984	9.7232	9.6069
Tl 190.794	26.2897	25.3536	30.0130
V 292.401	9.5887	9.4058	9.6872
Zn 206.200	21.6209	20.6163	19.2829

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.3531	ppb	0.1615	1.7	735.096
Al 308.215	189.924	ppb	3.5891	1.9	954.452
As 188.980	20.5047	ppb	2.3479	11.5	3.0979
B 249.678	92.7867	ppb	0.9075	1.0	1401.97
Ba 389.178	9.5982	ppb	0.3477	3.6	229.949
Be 313.042	4.1120	ppb	0.0402	1.0	7429.96
Ca 370.602	480.4	ppb	6.398	1.3	1549
Cd 226.502	4.8914	ppb	0.1179	2.4	240.255
Co 228.615	10.0863	ppb	0.3938	3.9	143.741
Cr 267.716	10.0129	ppb	0.0514	0.5	546.396
Cu 324.754	20.3153	ppb	0.3549	1.7	1221.82
Fe 271.441	49.1207	ppb	2.2642	4.6	201.194
K 766.491	986.703	ppb	10.9037	1.1	38397.8
Mg 279.078	483.533	ppb	6.4881	1.3	1165.62
Mn 257.610	10.9376	ppb	0.0702	0.6	3002.56
Mo 202.032	9.3197	ppb	0.2232	2.4	93.0442
Na 330.237	816.138	ppb	53.1119	6.5	113.213
Ni 231.604	39.0021	ppb	0.7404	1.9	115.184
Pb 220.353	10.0975	ppb	2.0244	20.0	52.6167
Sb 206.834	21.8123	ppb	0.1501	0.7	30.5724
Se 196.026	20.5779	ppb	7.6348	37.1	23.1476
Sn 189.925	47.8508	ppb	2.1276	4.4	36.0758
Sr 216.596	9.7488	ppb	0.1510	1.5	144.570
Ti 334.941	9.6762	ppb	0.0613	0.6	2934.27
Tl 190.794	27.2187	ppb	2.4647	9.1	14.5275
V 292.401	9.5605	ppb	0.1428	1.5	269.072
Zn 206.200	20.5067	ppb	1.1729	5.7	327.4953

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ics 680-275899/3-a (Samp)      5/8/2013, 10:32:51 AM      Rack 4, Tube 22  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	470.227	467.318	470.806
Al 308.215	4702.92	4705.15	4654.18
As 188.980	478.916	473.911	482.664
B 249.678	481.606	484.387	482.320
Ba 389.178	4943.76	4953.66	4922.30
Be 313.042	495.062	497.034	491.773
Ca 370.602	4824	4843	4784
Cd 226.502	483.914	486.086	481.172
Co 228.615	497.509	498.738	494.155
Cr 267.716	4945.19	4952.93	4916.60
Cu 324.754	4971.36	4905.81	4935.53
Fe 271.441	4741.11	4752.96	4711.18
K 766.491	9903.72	9880.94	9855.20
Mg 279.078	4735.25	4748.12	4699.72
Mn 257.610	5034.46	5047.78	5001.05
Mo 202.032	471.180	473.192	467.736
Na 330.237	6789.14	6829.62	6804.33
Ni 231.604	2454.56	2461.19	2434.49
Pb 220.353	471.454	473.906	467.788
Sb 206.834	935.702	942.610	930.767
Se 196.026	4682.60	4683.48	4654.38
Sn 189.925	4740.73	4800.22	4733.82
Sr 216.596	2404.26	2409.25	2383.20
Ti 334.941	477.289	478.961	476.003
Tl 190.794	4777.99	4792.32	4743.64
V 292.401	4753.21	4759.06	4722.36
Zn 206.200	2460.55	2475.82	2445.41

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	469.450	ppb	1.8692	0.4	37886.2
Al 308.215	4687.42	ppb	28.8050	0.6	21805.5
As 188.980	478.497	ppb	4.3914	0.9	222.432
B 249.678	482.771	ppb	1.4446	0.3	6669.99
Ba 389.178	4939.91	ppb	16.0301	0.3	114810
Be 313.042	494.623	ppb	2.6575	0.5	938683
Ca 370.602	4817	ppb	29.88	0.6	15366
Cd 226.502	483.724	ppb	2.4624	0.5	20110.1
Co 228.615	496.801	ppb	2.3721	0.5	6732.04
Cr 267.716	4938.24	ppb	19.1324	0.4	260868
Cu 324.754	4937.57	ppb	32.8236	0.7	233192
Fe 271.441	4735.08	ppb	21.5343	0.5	9074.16
K 766.491	9879.95	ppb	24.2719	0.2	381140
Mg 279.078	4727.70	ppb	25.0723	0.5	10965.5
Mn 257.610	5027.76	ppb	24.0767	0.5	1344230
Mo 202.032	470.702	ppb	2.7592	0.6	3854.45
Na 330.237	6807.70	ppb	20.4477	0.3	415.077
Ni 231.604	2450.08	ppb	13.8995	0.6	7597.01
Pb 220.353	471.050	ppb	3.0790	0.7	1011.20
Sb 206.834	936.360	ppb	5.9490	0.6	1217.51
Se 196.026	4673.49	ppb	16.5538	0.4	2598.11
Sn 189.925	4758.26	ppb	36.5070	0.8	4816.23
Sr 216.596	2398.90	ppb	13.8226	0.6	30807.4
Ti 334.941	477.418	ppb	1.4832	0.3	146701
Tl 190.794	4771.32	ppb	25.0160	0.5	5277.39
V 292.401	4744.88	ppb	19.7187	0.4	138623
Zn 206.200	2460.59	ppb	15.2007	0.6	3995.28

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**680-89700-j-1-d (Samp)**                      **5/8/2013, 10:38:19 AM**                      **Rack 4, Tube 23**  
**Weight: 1**    **Volume: 1**    **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4086u	-0.0498u	0.0417u
Al 308.215	2.2240	5.1227	2.0149
As 188.980	-2.5329u	6.5587	4.5472
B 249.678	36.8471	35.9533	35.5490
Ba 389.178	29.2067	30.1182	30.6726
Be 313.042	0.0874	0.1091	0.1123
Ca 370.602	69941	70068	70119
Cd 226.502	-0.1246u	-0.0262u	0.0969
Co 228.615	-0.1985u	0.1508	0.2128
Cr 267.716	0.8533	1.2499	1.2519
Cu 324.754	2.3386	2.9202	3.1517
Fe 271.441	24.1331	26.2299	31.3383
K 766.491	2639.41	2649.74	2675.85
Mg 279.078	38649.8	38772.9	38828.4
Mn 257.610	-0.0556	0.2373	0.3503
Mo 202.032	-0.0306u	-0.4253u	0.0610
Na 330.237	34127.4	34347.4	34306.5
Ni 231.604	2.1878	1.9761	2.9021
Pb 220.353	-0.5644u	-1.4325u	0.8435
Sb 206.834	0.3677	3.7982	-0.3052u
Se 196.026	-3.5884u	-0.7719u	6.0257
Sn 189.925	4.5966	4.7880	0.4969
Sr 216.596	689.752	691.815	690.724
Ti 334.941	-0.3475	-0.3277	-0.3348
Tl 190.794	3.6003	5.6819	2.5050
V 292.401	0.8214	1.1314	1.2776
Zn 206.200	20.9231	21.3355	22.0052

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1389	ppb	0.2380	171.3	-66.7976
Al 308.215	3.1205	ppb	1.7371	55.7	86.7578
As 188.980	2.8576	ppb	4.7755	167.1	-4.8974
B 249.678	36.1165	ppb	0.6642	1.8	635.554
Ba 389.178	29.9992	ppb	0.7402	2.5	804.138
Be 313.042	0.1029	ppb	0.0135	13.1	-162.584
Ca 370.602	70043	ppb	92.08	0.1	225052
Cd 226.502	-0.0180	ppb	0.1109	617.6	36.9542
Co 228.615	0.0550	ppb	0.2217	402.8	8.2628
Cr 267.716	1.1184	ppb	0.2295	20.5	77.2342
Cu 324.754	2.8035	ppb	0.4189	14.9	395.421
Fe 271.441	27.2337	ppb	3.7060	13.6	158.570
K 766.491	2655.00	ppb	18.7778	0.7	102693
Mg 279.078	38750.4	ppb	91.3967	0.2	90333.2
Mn 257.610	0.1773	ppb	0.2095	118.1	487.391
Mo 202.032	-0.1317	ppb	0.2584	196.3	15.7989
Na 330.237	34260.4	ppb	117.016	0.3	1937.33
Ni 231.604	2.3553	ppb	0.4852	20.6	1.4668
Pb 220.353	-0.3845	ppb	1.1487	298.8	30.8420
Sb 206.834	1.2869	ppb	2.2007	171.0	5.2353
Se 196.026	0.5551	ppb	4.9425	890.3	12.0702
Sn 189.925	3.2938	ppb	2.4241	73.6	-9.0905
Sr 216.596	690.764	ppb	1.0323	0.1	8913.27
Ti 334.941	-0.3366	ppb	0.0100	3.0	43.8066
Tl 190.794	3.9291	ppb	1.6138	41.1	-11.3264
V 292.401	1.0768	ppb	0.2329	21.6	23.0841
Zn 206.200	21.4213	ppb	0.5461	2.5	34.0120

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**680-89700-j-1-e ms (Samp) 5/8/2013, 10:43:47 AM Rack 4, Tube 24****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	19.4501	19.4160	19.2807
Al 308.215	1956.11	1951.01	1948.81
As 188.980	51.8232	41.4545	45.9995
B 249.678	106.764	106.658	106.612
Ba 389.178	69.0266	68.3994	68.2270
Be 313.042	20.5756	20.5581	20.5478
Ca 370.602	71005	70826	70775
Cd 226.502	20.1269	20.0797	20.0710
Co 228.615	20.0142	20.9176	20.7219
Cr 267.716	40.4203	40.2766	40.4105
Cu 324.754	42.2348	42.5804	42.5839
Fe 271.441	1942.54	1947.14	1944.79
K 766.491	4884.16	4912.43	4919.54
Mg 279.078	40241.8	40108.1	40081.7
Mn 257.610	208.216	207.678	207.708
Mo 202.032	36.1137	36.6551	36.6534
Na 330.237	35524.2	35403.7	35603.1
Ni 231.604	38.9201	42.3402	41.3443
Pb 220.353	19.1801	20.6291	19.6137
Sb 206.834	18.9507	20.2777	20.5115
Se 196.026	34.9188	39.7654	30.5523
Sn 189.925	67.6576	71.8036	73.1886
Sr 216.596	721.130	718.666	716.889
Ti 334.941	38.1211	38.1280	38.0655
Tl 190.794	17.3265	18.0416	16.6019
V 292.401	38.7485	38.7352	38.8323
Zn 206.200	56.9047	58.7847	55.6039

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	19.3823	ppb	0.0896	0.5	1511.98
Al 308.215	1951.98	ppb	3.7468	0.2	9133.18
As 188.980	46.4257	ppb	5.1975	11.2	15.9605
B 249.678	106.678	ppb	0.0780	0.1	1587.29
Ba 389.178	68.5510	ppb	0.4208	0.6	1706.48
Be 313.042	20.5605	ppb	0.0140	0.1	38680.1
Ca 370.602	70869	ppb	120.8	0.2	227561
Cd 226.502	20.0925	ppb	0.0301	0.1	877.905
Co 228.615	20.5512	ppb	0.4753	2.3	284.991
Cr 267.716	40.3692	ppb	0.0803	0.2	2151.80
Cu 324.754	42.4664	ppb	0.2005	0.5	2267.91
Fe 271.441	1944.82	ppb	2.2997	0.1	3739.80
K 766.491	4905.38	ppb	18.7175	0.4	189422
Mg 279.078	40143.9	ppb	85.8304	0.2	93576.3
Mn 257.610	207.868	ppb	0.3024	0.1	56029.4
Mo 202.032	36.4741	ppb	0.3121	0.9	314.859
Na 330.237	35510.3	ppb	100.410	0.3	2004.17
Ni 231.604	40.8682	ppb	1.7590	4.3	121.022
Pb 220.353	19.8076	ppb	0.7437	3.8	72.8292
Sb 206.834	19.9133	ppb	0.8418	4.2	28.3506
Se 196.026	35.0788	ppb	4.6086	13.1	31.2356
Sn 189.925	70.8833	ppb	2.8780	4.1	59.5006
Sr 216.596	718.895	ppb	2.1298	0.3	9273.98
Ti 334.941	38.1049	ppb	0.0343	0.1	11864.7
Tl 190.794	17.3234	ppb	0.7199	4.2	3.1147
V 292.401	38.7720	ppb	0.0526	0.1	1118.01
Zn 206.200	57.0977	ppb	1.5992	2.8	922660

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Cont Calib Verif (CCV)                      5/8/2013, 10:49:15 AM                      Rack 4, Tube 25  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	471.338	471.504	471.477
Al 308.215	4696.35	4733.03	4722.29
As 188.980	479.830	473.232	473.871
B 249.678	485.750	492.595	492.732
Ba 389.178	4950.28	4983.64	4973.53
Be 313.042	495.356	499.416	499.457
Ca 370.602	4830	4855	4842
Cd 226.502	485.755	489.541	487.717
Co 228.615	499.779	502.738	499.150
Cr 267.716	4955.43	4986.46	4981.56
Cu 324.754	4944.43	5010.59	4906.14
Fe 271.441	4746.61	4773.57	4773.00
K 766.491	9884.40	10000.1	10012.3
Mg 279.078	4758.75	4790.20	4777.59
Mn 257.610	5041.97	5061.88	5060.22
Mo 202.032	471.960	476.570	475.147
Na 330.237	6824.08	6860.46	7057.24
Ni 231.604	2464.61	2483.94	2469.89
Pb 220.353	469.421	475.920	471.663
Sb 206.834	939.653	947.672	948.423
Se 196.026	4722.20	4735.01	4720.71
Sn 189.925	4811.68	4797.59	4816.11
Sr 216.596	2406.61	2423.43	2418.08
Ti 334.941	478.558	481.697	481.685
Tl 190.794	4791.55	4823.26	4805.56
V 292.401	4761.50	4786.02	4780.46
Zn 206.200	2473.99	2495.93	2474.24

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	471.440	ppb	0.0889	0.0	38046.7	94.28794
Al 308.215	4717.22	ppb	18.8580	0.4	21943.8	94.34442
As 188.980	475.644	ppb	3.6387	0.8	221.064	95.12886
B 249.678	490.359	ppb	3.9924	0.8	6772.58	19.61436Q
Ba 389.178	4969.15	ppb	17.1048	0.3	115489	99.38298
Be 313.042	498.076	ppb	2.3559	0.5	945239	99.61528
Ca 370.602	4842	ppb	12.44	0.3	15447	96.84491
Cd 226.502	487.671	ppb	1.8931	0.4	20273.8	97.53423
Co 228.615	500.556	ppb	1.9161	0.4	6782.81	100.11113
Cr 267.716	4974.48	ppb	16.6831	0.3	262783	99.48968
Cu 324.754	4953.72	ppb	52.8421	1.1	233953	99.07436
Fe 271.441	4764.39	ppb	15.4038	0.3	9129.80	95.28780
K 766.491	9965.60	ppb	70.5873	0.7	384441	99.65603
Mg 279.078	4775.52	ppb	15.8241	0.3	11076.4	95.51030
Mn 257.610	5054.69	ppb	11.0501	0.2	1351429	101.09379
Mo 202.032	474.559	ppb	2.3604	0.5	3885.91	94.91183
Na 330.237	6913.93	ppb	125.438	1.8	420.664	92.18570
Ni 231.604	2472.81	ppb	9.9878	0.4	7667.56	98.91259
Pb 220.353	472.335	ppb	3.3014	0.7	1013.87	94.46692
Sb 206.834	945.250	ppb	4.8611	0.5	1228.90	94.52496
Se 196.026	4725.98	ppb	7.8625	0.2	2627.14	94.51951
Sn 189.925	4808.46	ppb	9.6704	0.2	4867.17	96.16919
Sr 216.596	2416.04	ppb	8.5905	0.4	31027.2	96.64162
Ti 334.941	480.646	ppb	1.8091	0.4	147694	96.12929
Tl 190.794	4806.79	ppb	15.8900	0.3	5316.75	96.13579
V 292.401	4775.99	ppb	12.8559	0.3	139532	95.51985
Zn 206.200	2481.39	ppb	12.5944	0.5	4029.07	99.25545



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Cont Calib Blank (CCB) 5/8/2013, 10:54:43 AM Rack 4, Tube 26

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2592u	-0.5532u	-0.4351u
Al 308.215	-2.4082u	-2.9016u	-0.8999u
As 188.980	9.3644	8.1770	7.6014
B 249.678	8.4825	7.2288	6.0294
Ba 389.178	-0.7164u	-0.1360u	-1.1028u
Be 313.042	-0.0022u	-0.0085u	0.0039
Ca 370.602	-3.201u	0.3565	2.798
Cd 226.502	-0.0910u	-0.0940u	-0.1980u
Co 228.615	0.2450	-0.5677u	0.0562
Cr 267.716	-0.3074u	-0.1916u	-0.0812u
Cu 324.754	0.2712	-0.4466u	-0.2670u
Fe 271.441	-3.0129u	-0.8393u	0.6029
K 766.491	-2.7727u	-2.2544u	-2.3209u
Mg 279.078	-2.2943u	-4.0773u	-1.8929u
Mn 257.610	-0.1246u	-0.1566u	-0.1804u
Mo 202.032	0.3879	-0.2595u	-0.0072u
Na 330.237	-150.331u	-135.649u	-220.786u
Ni 231.604	0.3023	1.3807	-0.3601u
Pb 220.353	-1.0759u	-3.4542u	0.1991
Sb 206.834	4.7918	7.9919	6.7040
Se 196.026	2.7763	-4.9624u	4.2674
Sn 189.925	3.5109	1.3511	-1.5578u
Sr 216.596	-0.0929u	-0.3636u	-0.0392u
Ti 334.941	0.0325	0.0131	-0.0137u
Tl 190.794	3.3524	1.2325	2.6246
V 292.401	0.0090	-0.0539u	0.3544
Zn 206.200	0.9510	1.1611	1.3955

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.4159	ppb	0.1479	35.6	-54.6261	-0.41585
Al 308.215	-2.0699	ppb	1.0428	50.4	62.7016	-2.06988
As 188.980	8.3809	ppb	0.8990	10.7	-2.7119	8.38094
B 249.678	7.2469	ppb	1.2267	16.9	245.132	7.24689
Ba 389.178	-0.6517	ppb	0.4866	74.7	-9.6128	-0.65174
Be 313.042	-0.0023	ppb	0.0062	271.6	-381.346	-0.00228
Ca 370.602	-0.0158	ppb	3.017	19150.9	7.827	-0.01575
Cd 226.502	-0.1277	ppb	0.0609	47.7	31.9716	-0.12766
Co 228.615	-0.0888	ppb	0.4254	478.8	6.3006	-0.08883
Cr 267.716	-0.1934	ppb	0.1131	58.5	7.2543	-0.19342
Cu 324.754	-0.1475	ppb	0.3735	253.3	256.196	-0.14745
Fe 271.441	-1.0831	ppb	1.8202	168.0	105.708	-1.08312
K 766.491	-2.4493	ppb	0.2820	11.5	276.180	-2.44933
Mg 279.078	-2.7548	ppb	1.1627	42.2	32.7494	-2.75483
Mn 257.610	-0.1538	ppb	0.0280	18.2	32.6785	-0.15384
Mo 202.032	0.0404	ppb	0.3263	807.8	17.2092	0.04040
Na 330.237	-168.922	ppb	45.5112	26.9	59.7398	-168.92189
Ni 231.604	0.4410	ppb	0.8786	199.3	-4.4744	0.44095
Pb 220.353	-1.4436	ppb	1.8542	128.4	28.6392	-1.44364
Sb 206.834	6.4959	ppb	1.6102	24.8	11.6456	6.49590
Se 196.026	0.6938	ppb	4.9548	714.2	12.1462	0.69377
Sn 189.925	1.1014	ppb	2.5435	230.9	-11.3664	1.10138
Sr 216.596	-0.1652	ppb	0.1739	105.2	18.1618	-0.16523
Ti 334.941	0.0106	ppb	0.0232	218.5	-38.4626	0.01064
Tl 190.794	2.4032	ppb	1.0772	44.8	-13.0173	2.40318
V 292.401	0.1032	ppb	0.2198	213.1	-5.6017	0.10315
Zn 206.200	1.1692	ppb	0.2223	19.0	0.9964	1.16919

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**680-89700-j-1-f msd (Samp)**      **5/8/2013, 11:00:11 AM**      **Rack 4, Tube 27**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	19.4450	19.2453	19.5637
Al 308.215	1952.49	1961.96	1963.27
As 188.980	45.0619	49.1990	48.0824
B 249.678	106.112	106.980	107.542
Ba 389.178	69.3677	69.4297	67.9238
Be 313.042	20.4821	20.5561	20.5833
Ca 370.602	70972	71138	71250
Cd 226.502	19.8565	20.3410	20.1111
Co 228.615	20.0963	20.2342	20.3327
Cr 267.716	40.4055	40.6624	40.4219
Cu 324.754	42.3645	42.6570	42.8837
Fe 271.441	1943.99	1945.58	1954.41
K 766.491	4893.60	4920.71	4929.77
Mg 279.078	40195.9	40318.8	40372.9
Mn 257.610	207.401	208.173	208.310
Mo 202.032	35.6078	35.9624	36.7568
Na 330.237	35650.3	35856.2	35859.4
Ni 231.604	42.1155	40.9494	40.2076
Pb 220.353	22.6338	18.7080	19.7048
Sb 206.834	19.4000	22.6229	20.7013
Se 196.026	38.7482	34.9366	35.8465
Sn 189.925	68.1662	71.7732	73.4423
Sr 216.596	719.819	720.286	722.781
Ti 334.941	37.9428	37.9593	38.1057
Tl 190.794	22.0301	18.3664	16.9002
V 292.401	38.8321	39.1031	38.9212
Zn 206.200	55.3230	54.6967	56.6347

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	19.4180	ppb	0.1609	0.8	1514.81
Al 308.215	1959.24	ppb	5.8801	0.3	9166.85
As 188.980	47.4478	ppb	2.1403	4.5	16.4515
B 249.678	106.878	ppb	0.7207	0.7	1589.99
Ba 389.178	68.9071	ppb	0.8521	1.2	1715.14
Be 313.042	20.5405	ppb	0.0524	0.3	38642.2
Ca 370.602	71120	ppb	140.1	0.2	228368
Cd 226.502	20.1029	ppb	0.2424	1.2	878.351
Co 228.615	20.2211	ppb	0.1187	0.6	280.539
Cr 267.716	40.4966	ppb	0.1438	0.4	2158.54
Cu 324.754	42.6351	ppb	0.2603	0.6	2275.86
Fe 271.441	1947.99	ppb	5.6133	0.3	3745.65
K 766.491	4914.69	ppb	18.8223	0.4	189781
Mg 279.078	40295.9	ppb	90.6685	0.2	93930.5
Mn 257.610	207.961	ppb	0.4897	0.2	56055.9
Mo 202.032	36.1090	ppb	0.5884	1.6	311.874
Na 330.237	35788.6	ppb	119.792	0.3	2019.37
Ni 231.604	41.0908	ppb	0.9618	2.3	121.713
Pb 220.353	20.3489	ppb	2.0406	10.0	73.9554
Sb 206.834	20.9081	ppb	1.6213	7.8	29.5857
Se 196.026	36.5104	ppb	1.9907	5.5	32.0275
Sn 189.925	71.1272	ppb	2.6967	3.8	59.7483
Sr 216.596	720.962	ppb	1.5921	0.2	9300.61
Ti 334.941	38.0026	ppb	0.0897	0.2	11834.0
Tl 190.794	19.0989	ppb	2.6422	13.8	5.0862
V 292.401	38.9521	ppb	0.1381	0.4	1123.35
Zn 206.200	55.5514	ppb	0.9890	1.8	89.7452

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**89105-18 (Samp)**                      **5/8/2013, 11:05:39 AM**                      **Rack 4, Tube 28**  
**Weight: 1**                                      **Volume: 1**                                      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.8270	0.5138	0.0023
Al 308.215	51122.1	50902.8	51087.9
As 188.980	384.919	399.095	391.363
B 249.678	427.756	425.910	428.579
Ba 389.178	1885.72	1874.02	1881.15
Be 313.042	4.9497	4.9334	4.9434
Ca 370.602	19352u	19257u	19245u
Cd 226.502	-2.2305	-3.5284	-2.9660
Co 228.615	165.485	165.035	166.522
Cr 267.716	470.874	467.129	468.907
Cu 324.754	2593.36	2640.31	2654.78
Fe 271.441	1610214x	1608173x	1616947x
K 766.491	5894.69	5885.20	5874.86
Mg 279.078	6187.58	6149.33	6168.99
Mn 257.610	7438.43	7403.01	7395.17
Mo 202.032	89.7392	88.6334	88.4192
Na 330.237	3451.70u	3559.79u	3497.12u
Ni 231.604	1078.63	1074.05	1072.91
Pb 220.353	3234.73	3205.60	3205.30
Sb 206.834	247.404	241.152	239.246
Se 196.026	-0.7855	-9.8750	-10.5974
Sn 189.925	11312.8x	11299.5x	11308.6x
Sr 216.596	582.950	575.893	577.454
Ti 334.941	2401.17	2392.32	2399.25
Tl 190.794	-8.1312u	-12.8296u	-13.6124u
V 292.401	146.074	146.210	147.026
Zn 206.200	2810.83	2794.72	2794.93

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4477b	ppb	0.4163	93.0	18.5418
Al 308.215	51037.6b	ppb	117.979	0.2	236901
As 188.980	391.792b	ppb	7.0980	1.8	168.230
B 249.678	427.415b	ppb	1.3665	0.3	3744.80
Ba 389.178	1880.30b	ppb	5.8978	0.3	46010.9
Be 313.042	4.9422b	ppb	0.0082	0.2	8963.79
Ca 370.602	19285b	ppb	59.00	0.3	-70309
Cd 226.502	-2.9083b	ppb	0.6509	22.4	5946.23
Co 228.615	165.681b	ppb	0.7623	0.5	2244.26
Cr 267.716	468.970b	ppb	1.8735	0.4	25252.2
Cu 324.754	2629.49b	ppb	32.1122	1.2	124778
Fe 271.441	1611778xb	ppb	4591.38	0.3	3006970
K 766.491	5884.92b	ppb	9.9207	0.2	227173
Mg 279.078	6168.63b	ppb	19.1300	0.3	14588.4
Mn 257.610	7412.20b	ppb	23.0490	0.3	1986800
Mo 202.032	88.9306b	ppb	0.7084	0.8	652.109
Na 330.237	3502.87b	ppb	54.2692	1.5	-384.403
Ni 231.604	1075.19b	ppb	3.0264	0.3	3370.24
Pb 220.353	3215.21b	ppb	16.9064	0.5	6718.10
Sb 206.834	242.601b	ppb	4.2673	1.8	355.743
Se 196.026	-7.0860b	ppb	5.4683	77.2	20.5115
Sn 189.925	11307.0xb	ppb	6.8207	0.1	11461.9
Sr 216.596	578.766b	ppb	3.7073	0.6	8436.51
Ti 334.941	2397.58b	ppb	4.6551	0.2	737015
Tl 190.794	-11.5244b	ppb	2.9645	25.7	-132.770
V 292.401	146.437b	ppb	0.5150	0.4	4274.45
Zn 206.200	2800.16b	ppb	9.2433	0.3	4744.99

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89105-32 (Samp) 5/8/2013, 11:11:08 AM Rack 4, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.2262	1.1931	2.1391
Al 308.215	77109.8	76975.6	77083.3
As 188.980	116.094	126.395	124.738
B 249.678	67.7325	67.9543	67.2723
Ba 389.178	2684.65	2686.11	2685.34
Be 313.042	7.5174	7.5128	7.4962
Ca 370.602	46774	46776	46743
Cd 226.502	2.8601	2.6124	2.4408
Co 228.615	83.9201	84.9801	83.7034
Cr 267.716	309.305	309.645	309.211
Cu 324.754	1102.59	1123.90	1115.49
Fe 271.441	585620	583771	583334
K 766.491	14681.1	14777.9	14842.2
Mg 279.078	12215.6	12202.0	12197.8
Mn 257.610	3383.87	3377.18	3368.23
Mo 202.032	34.2770	34.4097	34.7282
Na 330.237	2252.78u	2211.57u	2302.83u
Ni 231.604	277.103	280.266	276.349
Pb 220.353	2033.32	2022.51	2016.41
Sb 206.834	5.9437	9.6844	9.1910
Se 196.026	7.7593	14.2946	-0.9758
Sn 189.925	3027.21	3012.73	3008.37
Sr 216.596	902.351	902.861	900.654
Ti 334.941	4416.32	4424.41	4423.77
Tl 190.794	-5.7927u	-1.8170u	0.5737u
V 292.401	157.715	158.361	157.330
Zn 206.200	2898.49	2891.66	2879.61

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.5195	ppb	0.5369	35.3	73.5646
Al 308.215	77056.3	ppb	71.0767	0.1	357626
As 188.980	122.409	ppb	5.5315	4.5	47.5659
B 249.678	67.6530	ppb	0.3479	0.5	271.173
Ba 389.178	2685.37	ppb	0.7315	0.0	63263.0
Be 313.042	7.5088	ppb	0.0112	0.1	13879.9
Ca 370.602	46764	ppb	18.63	0.0	103016
Cd 226.502	2.6378	ppb	0.2108	8.0	2331.46
Co 228.615	84.2012	ppb	0.6832	0.8	1253.97
Cr 267.716	309.387	ppb	0.2281	0.1	16538.7
Cu 324.754	1113.99	ppb	10.7308	1.0	52985.7
Fe 271.441	584242	ppb	1213.52	0.2	1090050
K 766.491	14767.1	ppb	81.0737	0.5	569489
Mg 279.078	12205.1	ppb	9.2929	0.1	28511.1
Mn 257.610	3376.43	ppb	7.8469	0.2	904684
Mo 202.032	34.4716	ppb	0.2319	0.7	265.203
Na 330.237	2255.73	ppb	45.6994	2.0	-85.6342
Ni 231.604	277.906	ppb	2.0781	0.7	870.925
Pb 220.353	2024.08	ppb	8.5655	0.4	4239.71
Sb 206.834	8.2730	ppb	2.0323	24.6	34.3564
Se 196.026	7.0260	ppb	7.6615	109.0	20.4302
Sn 189.925	3016.10	ppb	9.8657	0.3	3048.28
Sr 216.596	901.955	ppb	1.1559	0.1	11980.5
Ti 334.941	4421.50	ppb	4.4972	0.1	1358904
Tl 190.794	-2.3454	ppb	3.2159	137.1	-57.1276
V 292.401	157.802	ppb	0.5212	0.3	4662.72
Zn 206.200	2889.92	ppb	9.5555	0.3	35775.55

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

**89105-35 (Samp)**                      **5/8/2013, 11:16:36 AM**                      **Rack 4, Tube 30****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-3.3657u	-3.6165u	-3.5290u
Al 308.215	167246	167923	168503
As 188.980	31.6091	29.8154	27.5139
B 249.678	2.6822u	2.3731u	1.7518u
Ba 389.178	371.588	372.791	372.471
Be 313.042	5.2086	5.2265	5.2486
Ca 370.602	700.5u	667.9u	661.5u
Cd 226.502	-2.0511	-2.0519	-2.0686
Co 228.615	23.1955	22.4377	22.7652
Cr 267.716	216.702	217.451	218.035
Cu 324.754	109.361	110.426	108.528
Fe 271.441	183136	183370	184009
K 766.491	9881.20	9863.56	9886.20
Mg 279.078	8328.46	8352.95	8342.81
Mn 257.610	945.615	947.825	949.409
Mo 202.032	2.0902	2.1958	1.7155
Na 330.237	391.584u	409.265u	515.665u
Ni 231.604	72.1072	68.2784	70.3416
Pb 220.353	299.071	300.680	297.865
Sb 206.834	1.0464	2.2357	-1.5511
Se 196.026	-11.1893u	-4.0106u	-2.9414u
Sn 189.925	24.9777	26.8414	25.4719
Sr 216.596	46.5150	46.6518	47.1189
Ti 334.941	3316.77	3325.59	3326.51
Tl 190.794	4.9381u	6.5747u	2.2657u
V 292.401	443.049	443.867	445.438
Zn 206.200	221.861	222.779	219.443

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.5037	ppb	0.1273	3.6	-298.949
Al 308.215	167891	ppb	628.923	0.4	779103
As 188.980	29.6462	ppb	2.0528	6.9	6.0193
B 249.678	2.2690	ppb	0.4738	20.9	-70.6293
Ba 389.178	372.283	ppb	0.6233	0.2	8939.85
Be 313.042	5.2279	ppb	0.0201	0.4	9545.94
Ca 370.602	676.6	ppb	20.94	3.1	-12297
Cd 226.502	-2.0572	ppb	0.0099	0.5	638.333
Co 228.615	22.7995	ppb	0.3800	1.7	410.103
Cr 267.716	217.396	ppb	0.6682	0.3	11558.6
Cu 324.754	109.438	ppb	0.9513	0.9	5473.84
Fe 271.441	183505	ppb	451.925	0.2	342453
K 766.491	9876.98	ppb	11.8946	0.1	381026
Mg 279.078	8341.41	ppb	12.3060	0.1	19441.3
Mn 257.610	947.616	ppb	1.9057	0.2	254067
Mo 202.032	2.0005	ppb	0.2524	12.6	21.8722
Na 330.237	438.838	ppb	67.1191	15.3	-4.7655
Ni 231.604	70.2424	ppb	1.9164	2.7	216.712
Pb 220.353	299.205	ppb	1.4126	0.5	655.526
Sb 206.834	0.5770	ppb	1.9365	335.6	12.1992
Se 196.026	-6.0471	ppb	4.4853	74.2	9.8886
Sn 189.925	25.7636	ppb	0.9655	3.7	13.6554
Sr 216.596	46.7619	ppb	0.3166	0.7	733.691
Ti 334.941	3322.96	ppb	5.3796	0.2	1021238
Tl 190.794	4.5929	ppb	2.1752	47.4	-22.3753
V 292.401	444.118	ppb	1.2141	0.3	13046.7
Zn 206.200	221.361	ppb	1.7231	0.8	339.028

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**89105-36 (Samp)**                      **5/8/2013, 11:22:04 AM**                      **Rack 4, Tube 31****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5835u	-1.6464u	-2.3243u
Al 308.215	105478	105718	105637
As 188.980	116.528	118.598	125.636
B 249.678	2.5631u	1.6736u	2.3349u
Ba 389.178	1028.64	1029.69	1029.91
Be 313.042	7.8965	7.9211	7.9163
Ca 370.602	3527u	3523u	3514u
Cd 226.502	-0.4410	-0.3989	-0.4516
Co 228.615	61.3596	61.2238	60.8865
Cr 267.716	204.885	204.537	204.659
Cu 324.754	171.415	171.825	170.677
Fe 271.441	158835	158910	158441
K 766.491	17984.3	17828.9	17890.4
Mg 279.078	15176.0	15182.5	15173.7
Mn 257.610	2317.82	2314.70	2310.47
Mo 202.032	7.1379	6.3758	6.8806
Na 330.237	969.314u	865.471u	1024.58u
Ni 231.604	81.5334	78.1693	78.6552
Pb 220.353	12057.5	12033.3	12025.6
Sb 206.834	135.021	131.448	137.299
Se 196.026	3.6463	-0.5879	-2.7436
Sn 189.925	101.834	99.0062	99.0289
Sr 216.596	159.415	158.867	158.728
Ti 334.941	6157.74	6150.18	6164.27
Tl 190.794	6.4497u	3.8424u	5.8669u
V 292.401	322.195	321.468	321.912
Zn 206.200	460.715	463.101	462.358

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5181	ppb	0.8775	57.8	-138.186
Al 308.215	105611	ppb	122.136	0.1	490117
As 188.980	120.254	ppb	4.7744	4.0	49.6484
B 249.678	2.1905	ppb	0.4620	21.1	-37.9911
Ba 389.178	1029.41	ppb	0.6759	0.1	24189.5
Be 313.042	7.9113	ppb	0.0130	0.2	14636.6
Ca 370.602	3521	ppb	6.972	0.2	-539.5
Cd 226.502	-0.4305	ppb	0.0278	6.5	613.050
Co 228.615	61.1567	ppb	0.2436	0.4	1015.34
Cr 267.716	204.694	ppb	0.1766	0.1	10894.2
Cu 324.754	171.306	ppb	0.5818	0.3	8387.10
Fe 271.441	158729	ppb	251.786	0.2	296238
K 766.491	17901.2	ppb	78.2710	0.4	690276
Mg 279.078	15177.4	ppb	4.5964	0.0	35361.2
Mn 257.610	2314.33	ppb	3.6877	0.2	619422
Mo 202.032	6.7981	ppb	0.3877	5.7	62.7605
Na 330.237	953.123	ppb	80.7827	8.5	7.3661
Ni 231.604	79.4526	ppb	1.8183	2.3	244.653
Pb 220.353	12038.8	ppb	16.6376	0.1	25061.8
Sb 206.834	134.590	ppb	2.9494	2.2	176.745
Se 196.026	0.1049	ppb	3.2508	3098.2	13.5067
Sn 189.925	99.9563	ppb	1.6259	1.6	88.9488
Sr 216.596	159.003	ppb	0.3634	0.2	2161.89
Ti 334.941	6157.40	ppb	7.0519	0.1	1892342
Tl 190.794	5.3863	ppb	1.3685	25.4	-22.3455
V 292.401	321.858	ppb	0.3664	0.1	9511.89
Zn 206.200	462.058	ppb	1.2211	0.3	769.658

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**89105-37 (Samp)**                      **5/8/2013, 11:27:32 AM**                      **Rack 4, Tube 32****Weight: 1**                                      **Volume: 1**                                      **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.3756u	-1.3623u	-0.9007u
Al 308.215	128532	128970	128685
As 188.980	126.916	127.322	132.031
B 249.678	3.6116u	2.7173u	2.1448u
Ba 389.178	906.493	906.121	905.392
Be 313.042	5.8663	5.8838	5.8798
Ca 370.602	24886	24923	24904
Cd 226.502	4.2778	3.9965	4.1614
Co 228.615	45.7070	45.4465	45.2079
Cr 267.716	212.993	212.885	212.768
Cu 324.754	568.981	574.508	575.589
Fe 271.441	242501	242666	242266
K 766.491	23147.4	23134.0	23219.2
Mg 279.078	18220.5	18253.8	18249.0
Mn 257.610	2276.65	2272.61	2270.20
Mo 202.032	20.4164	20.9053	20.4895
Na 330.237	1140.15u	1165.35u	1161.07u
Ni 231.604	92.0764	93.6857	93.1235
Pb 220.353	3097.95	3093.36	3080.85
Sb 206.834	9.2044	7.5921	1.5688
Se 196.026	-12.2501u	-0.8193	0.2653
Sn 189.925	129.802	130.908	134.738
Sr 216.596	245.209	246.934	246.635
Ti 334.941	6647.63	6651.34	6634.80
Tl 190.794	5.4095u	7.4780u	5.1324u
V 292.401	388.803	389.535	389.985
Zn 206.200	1987.27	1985.71	1982.02

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2129	ppb	0.2704	22.3	-117.829
Al 308.215	128729	ppb	221.880	0.2	597390
As 188.980	128.756	ppb	2.8432	2.2	53.1922
B 249.678	2.8246	ppb	0.7393	26.2	-143.007
Ba 389.178	906.002	ppb	0.5596	0.1	21450.3
Be 313.042	5.8766	ppb	0.0091	0.2	10778.3
Ca 370.602	24904	ppb	18.77	0.1	61337
Cd 226.502	4.1452	ppb	0.1414	3.4	1116.41
Co 228.615	45.4538	ppb	0.2496	0.5	814.086
Cr 267.716	212.882	ppb	0.1127	0.1	11349.0
Cu 324.754	573.026	ppb	3.5442	0.6	27363.9
Fe 271.441	242478	ppb	200.974	0.1	452472
K 766.491	23166.9	ppb	45.8251	0.2	893214
Mg 279.078	18241.1	ppb	18.0114	0.1	42509.9
Mn 257.610	2273.15	ppb	3.2613	0.1	608711
Mo 202.032	20.6037	ppb	0.2637	1.3	170.716
Na 330.237	1155.53	ppb	13.4851	1.2	-29.0886
Ni 231.604	92.9619	ppb	0.8167	0.9	288.649
Pb 220.353	3090.72	ppb	8.8516	0.3	6456.89
Sb 206.834	6.1218	ppb	4.0245	65.7	20.3737
Se 196.026	-4.2680	ppb	6.9339	162.5	11.6289
Sn 189.925	131.816	ppb	2.5903	2.0	121.289
Sr 216.596	246.259	ppb	0.9214	0.4	3337.74
Ti 334.941	6644.59	ppb	8.6814	0.1	2042091
Tl 190.794	6.0066	ppb	1.2818	21.3	-26.3712
V 292.401	389.441	ppb	0.5962	0.2	11497.1
Zn 206.200	1985.00	ppb	2.6931	0.1	3261.95

89105-38 (Samp) 5/8/2013, 11:33:00 AM Rack 4, Tube 33  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.7709	1.8322	1.9791
Al 308.215	119577	120445	120234
As 188.980	37.7213	62.9667	53.5743
B 249.678	-3.6405u	-3.2906u	-3.5311u
Ba 389.178	1360.78	1366.16	1365.25
Be 313.042	8.2931	8.3265	8.3038
Ca 370.602	5333u	5288u	5299u
Cd 226.502	13.4573	13.2499	13.4280
Co 228.615	74.0700	74.1553	75.0631
Cr 267.716	235.966	236.837	236.394
Cu 324.754	171.941	174.908	172.036
Fe 271.441	224578	225494	225624
K 766.491	15609.7	15669.4	15692.7
Mg 279.078	16777.7	16848.8	16851.1
Mn 257.610	2979.31	2993.22	2994.67
Mo 202.032	6.3320	6.7275	6.1805
Na 330.237	793.411u	853.515u	713.725u
Ni 231.604	98.3638	95.9375	93.9228
Pb 220.353	5647.34	5670.73	5677.44
Sb 206.834	48.8779	46.5042	48.5308
Se 196.026	-6.1141u	-3.1202	-2.6382
Sn 189.925	4096.07	4090.16	4106.04
Sr 216.596	80.3592	80.0625	80.1362
Ti 334.941	6663.07	6687.26	6675.49
Tl 190.794	3.5123u	7.7654u	6.4756u
V 292.401	330.656	331.554	331.734
Zn 206.200	1125.22	1127.62	1135.15

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.8607	ppb	0.1070	5.8	142.096
Al 308.215	120085	ppb	452.488	0.4	557281
As 188.980	51.4208	ppb	12.7597	24.8	16.1495
B 249.678	-3.4874	ppb	0.1790	5.1	-204.888
Ba 389.178	1364.06	ppb	2.8804	0.2	32063.9
Be 313.042	8.3078	ppb	0.0170	0.2	15391.9
Ca 370.602	5306	ppb	23.59	0.4	-174.5
Cd 226.502	13.3784	ppb	0.1122	0.8	1434.32
Co 228.615	74.4295	ppb	0.5504	0.7	1204.74
Cr 267.716	236.399	ppb	0.4355	0.2	12590.7
Cu 324.754	172.962	ppb	1.6863	1.0	8483.80
Fe 271.441	225232	ppb	570.401	0.3	420305
K 766.491	15657.3	ppb	42.8331	0.3	603796
Mg 279.078	16825.9	ppb	41.7121	0.2	39198.9
Mn 257.610	2989.07	ppb	8.4765	0.3	800031
Mo 202.032	6.4133	ppb	0.2824	4.4	55.8195
Na 330.237	786.884	ppb	70.1234	8.9	-36.1460
Ni 231.604	96.0747	ppb	2.2237	2.3	297.877
Pb 220.353	5665.17	ppb	15.8001	0.3	11809.7
Sb 206.834	47.9710	ppb	1.2820	2.7	73.0778
Se 196.026	-3.9575	ppb	1.8831	47.6	11.8849
Sn 189.925	4097.43	ppb	8.0271	0.2	4145.60
Sr 216.596	80.1859	ppb	0.1545	0.2	1189.17
Ti 334.941	6675.28	ppb	12.0974	0.2	2051513
Tl 190.794	5.9178	ppb	2.1807	36.9	-26.6534
V 292.401	331.315	ppb	0.5774	0.2	9795.72
Zn 206.200	1129.33	ppb	5.1853	0.5	1864.92



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89105-39 (Samp) 5/8/2013, 11:38:29 AM Rack 4, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.8076u	-2.3166u	-1.9720u
Al 308.215	154436	155360	155423
As 188.980	136.781	148.847	148.618
B 249.678	2.5353u	1.9767u	1.2655u
Ba 389.178	1740.45	1741.93	1744.91
Be 313.042	10.0364	10.0660	10.0617
Ca 370.602	44543	44603	44700
Cd 226.502	0.2855	0.0607	0.3933
Co 228.615	93.5614	92.6662	92.2849
Cr 267.716	316.030	316.639	316.131
Cu 324.754	288.771	294.252	294.517
Fe 271.441	246265	247240	247062
K 766.491	30152.9	30194.6	30199.4
Mg 279.078	31864.8	31963.6	32035.6
Mn 257.610	3418.55	3432.77	3429.55
Mo 202.032	6.6453	5.3328	6.1364
Na 330.237	2616.10u	2627.24u	2831.91u
Ni 231.604	188.535	188.566	187.699
Pb 220.353	1679.75	1699.34	1687.76
Sb 206.834	12.3393	3.3060	5.9239
Se 196.026	-7.5195u	1.1313	3.1329
Sn 189.925	28.8606	30.7327	28.9537
Sr 216.596	292.517	292.739	292.620
Ti 334.941	12400.0	12409.3	12400.7
Tl 190.794	8.1931u	10.0791u	7.6287u
V 292.401	548.664	550.688	549.067
Zn 206.200	629.888	632.155	633.260

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.0321	ppb	0.2597	12.8	-179.729
Al 308.215	155073	ppb	552.462	0.4	719626
As 188.980	144.749	ppb	6.9012	4.8	60.9508
B 249.678	1.9258	ppb	0.6365	33.0	-161.315
Ba 389.178	1742.43	ppb	2.2721	0.1	40926.3
Be 313.042	10.0547	ppb	0.0160	0.2	18717.0
Ca 370.602	44615	ppb	79.03	0.2	125403
Cd 226.502	0.2465	ppb	0.1697	68.8	971.977
Co 228.615	92.8375	ppb	0.6552	0.7	1630.58
Cr 267.716	316.267	ppb	0.3260	0.1	16828.1
Cu 324.754	292.513	ppb	3.2439	1.1	14128.4
Fe 271.441	246855	ppb	519.203	0.2	460651
K 766.491	30182.3	ppb	25.5623	0.1	1163587
Mg 279.078	31954.7	ppb	85.7512	0.3	74436.2
Mn 257.610	3426.95	ppb	7.4545	0.2	917306
Mo 202.032	6.0381	ppb	0.6617	11.0	51.0361
Na 330.237	2691.75	ppb	121.511	4.5	16.3526
Ni 231.604	188.267	ppb	0.4922	0.3	584.507
Pb 220.353	1688.95	ppb	9.8487	0.6	3539.34
Sb 206.834	7.1898	ppb	4.6478	64.6	23.3420
Se 196.026	-1.0851	ppb	5.6615	521.7	13.7394
Sn 189.925	29.5157	ppb	1.0550	3.6	17.4838
Sr 216.596	292.625	ppb	0.1113	0.0	3938.00
Ti 334.941	12403.3	ppb	5.1896	0.0	3811926
Tl 190.794	8.6336	ppb	1.2832	14.9	-25.4654
V 292.401	549.473	ppb	1.0716	0.2	16280.2
Zn 206.200	631.768	ppb	1.7189	0.3	3195.98

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**X (Samp)** 5/8/2013, 11:43:57 AM Rack 4, Tube 35**Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1724u	-0.3862u	-0.3589u
Al 308.215	1.1781	3.9591	5.8928
As 188.980	0.4510	-3.9278u	5.9233
B 249.678	-2.9924u	-2.1506u	-2.9751u
Ba 389.178	0.0699	-0.3366u	0.0148
Be 313.042	0.0345	0.0431	0.0397
Ca 370.602	38.67	36.82	42.63
Cd 226.502	-0.1039u	0.0593	-0.0663u
Co 228.615	0.4212	0.0187	0.2575
Cr 267.716	0.3423	0.1580	0.3129
Cu 324.754	0.6544	0.5325	1.1123
Fe 271.441	10.0032	11.2545	17.3376
K 766.491	95.6273	97.3695	97.7765
Mg 279.078	1.7167	4.5231	3.0913
Mn 257.610	4.4947	4.5957	4.6757
Mo 202.032	0.1906	-0.1757u	0.1863
Na 330.237	-30.2045u	-106.695u	-116.255u
Ni 231.604	0.8998	-0.5427u	0.8804
Pb 220.353	-2.4610u	0.4964	-0.3274u
Sb 206.834	-1.0267u	2.5998	2.6542
Se 196.026	-5.0225u	8.9178	-0.0326u
Sn 189.925	0.4105	2.2928	3.0663
Sr 216.596	0.0682	-0.1211u	0.0609
Ti 334.941	1.6467	1.5304	1.7933
Tl 190.794	-2.2208u	-1.5794u	1.9199
V 292.401	0.4046	0.2749	0.6478
Zn 206.200	8.8679	8.1018	9.9067

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3058	ppb	0.1164	38.1	-45.7084
Al 308.215	3.6767	ppb	2.3700	64.5	89.3571
As 188.980	0.8155	ppb	4.9357	605.2	-6.3366
B 249.678	-2.7060	ppb	0.4811	17.8	110.500
Ba 389.178	-0.0840	ppb	0.2205	262.6	3.6168
Be 313.042	0.0391	ppb	0.0044	11.1	-302.770
Ca 370.602	39.37	ppb	2.964	7.5	133.5
Cd 226.502	-0.0370	ppb	0.0855	231.3	35.7908
Co 228.615	0.2325	ppb	0.2024	87.1	10.6955
Cr 267.716	0.2710	ppb	0.0990	36.5	31.8191
Cu 324.754	0.7664	ppb	0.3057	39.9	299.312
Fe 271.441	12.8651	ppb	3.9235	30.5	131.788
K 766.491	96.9244	ppb	1.1416	1.2	4106.01
Mg 279.078	3.1104	ppb	1.4033	45.1	46.3335
Mn 257.610	4.5887	ppb	0.0907	2.0	1300.63
Mo 202.032	0.0671	ppb	0.2103	313.5	17.4258
Na 330.237	-84.3848	ppb	47.1642	55.9	64.2707
Ni 231.604	0.4125	ppb	0.8273	200.5	-4.5623
Pb 220.353	-0.7640	ppb	1.5263	199.8	30.0526
Sb 206.834	1.4091	ppb	2.1096	149.7	5.3736
Se 196.026	1.2875	ppb	7.0633	548.6	12.4761
Sn 189.925	1.9232	ppb	1.3660	71.0	-10.5323
Sr 216.596	0.0027	ppb	0.1072	4034.1	20.3306
Ti 334.941	1.6568	ppb	0.1317	8.0	467.446
Tl 190.794	-0.6268	ppb	2.2287	355.6	-16.3905
V 292.401	0.4425	ppb	0.1893	42.8	4.3475
Zn 206.200	8.9588	ppb	0.9959	11.1	37.6960

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CRI (Samp) 5/8/2013, 11:49:25 AM Rack 4, Tube 36

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	8.9975	9.5595	8.9577
Al 308.215	191.943	190.978	190.513
As 188.980	12.3649	21.0827	25.9309
B 249.678	90.3717	92.1320	91.2253
Ba 389.178	9.4589	10.7101	10.0661
Be 313.042	4.0757	4.0988	4.0545
Ca 370.602	477.8	481.3	477.1
Cd 226.502	4.7698	4.8097	4.9663
Co 228.615	10.4134	9.4694	10.0550
Cr 267.716	9.8855	10.1495	9.6679
Cu 324.754	20.1064	20.3427	19.8014
Fe 271.441	53.3970	54.4713	55.6163
K 766.491	987.807	1000.12	983.961
Mg 279.078	485.014	481.005	475.227
Mn 257.610	10.8190	10.8798	10.7844
Mo 202.032	9.4141	9.5949	9.7402
Na 330.237	877.616	788.812	856.090
Ni 231.604	38.9660	40.0124	39.3635
Pb 220.353	9.5781	10.2693	7.3130
Sb 206.834	19.4787	20.5189	19.0263
Se 196.026	17.0878	17.0371	17.3007
Sn 189.925	47.8747	46.7574	49.4154
Sr 216.596	9.1346	9.5658	9.3801
Ti 334.941	10.1793	10.2800	10.1510
Tl 190.794	24.6872	22.2690	29.0848
V 292.401	9.3606	9.6242	9.4804
Zn 206.200	21.5846	21.9625	20.4302

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.1716	ppb	0.3365	3.7	720.422
Al 308.215	191.145	ppb	0.7298	0.4	960.148
As 188.980	19.7928	ppb	6.8744	34.7	2.7566
B 249.678	91.2430	ppb	0.8803	1.0	1381.08
Ba 389.178	10.0783	ppb	0.6257	6.2	241.105
Be 313.042	4.0763	ppb	0.0222	0.5	7362.23
Ca 370.602	478.7	ppb	2.231	0.5	1543
Cd 226.502	4.8486	ppb	0.1039	2.1	238.502
Co 228.615	9.9793	ppb	0.4765	4.8	142.298
Cr 267.716	9.9009	ppb	0.2411	2.4	540.484
Cu 324.754	20.0835	ppb	0.2714	1.4	1210.89
Fe 271.441	54.4949	ppb	1.1098	2.0	211.199
K 766.491	990.628	ppb	8.4391	0.9	38549.0
Mg 279.078	480.416	ppb	4.9201	1.0	1158.36
Mn 257.610	10.8278	ppb	0.0483	0.4	2973.19
Mo 202.032	9.5831	ppb	0.1634	1.7	95.1965
Na 330.237	840.839	ppb	46.3245	5.5	114.547
Ni 231.604	39.4473	ppb	0.5282	1.3	116.566
Pb 220.353	9.0535	ppb	1.5464	17.1	50.4451
Sb 206.834	19.6747	ppb	0.7653	3.9	27.9275
Se 196.026	17.1419	ppb	0.1399	0.8	21.2471
Sn 189.925	48.0159	ppb	1.3346	2.8	36.2433
Sr 216.596	9.3602	ppb	0.2163	2.3	139.557
Ti 334.941	10.2034	ppb	0.0678	0.7	3096.30
Tl 190.794	25.3470	ppb	3.4555	13.6	12.4485
V 292.401	9.4884	ppb	0.1320	1.4	266.910
Zn 206.200	21.3258	ppb	0.7983	3.7	338316

E05072013A.wvq. All Data Report 5/8/2013, 1:03:00 PM

Cont Calib Verif (CCV)                      5/8/2013, 11:54:53 AM                      Rack 4, Tube 37  
 Weight: 1                                      Volume: 1                                      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	474.942	468.560	476.090
Al 308.215	4727.69	4683.65	4718.47
As 188.980	477.111	481.540	495.678
B 249.678	482.715	486.319	492.494
Ba 389.178	4989.75	4960.90	5001.31
Be 313.042	495.873	495.371	497.418
Ca 370.602	4852	4828	4876
Cd 226.502	488.137	486.666	492.210
Co 228.615	500.086	498.066	504.471
Cr 267.716	4990.14	4976.69	5016.62
Cu 324.754	5010.57	4990.41	4922.40
Fe 271.441	4794.65	4746.30	4797.96
K 766.491	10032.7	10026.0	10043.1
Mg 279.078	4767.92	4744.38	4799.74
Mn 257.610	5061.83	5065.25	5109.47
Mo 202.032	474.620	473.390	476.960
Na 330.237	6996.21	6824.13	7003.56
Ni 231.604	2474.10	2461.96	2490.04
Pb 220.353	474.268	469.757	476.708
Sb 206.834	937.253	937.678	946.792
Se 196.026	4713.78	4688.43	4732.12
Sn 189.925	4796.49	4751.40	4817.18
Sr 216.596	2420.85	2415.78	2457.41
Ti 334.941	482.557	481.402	484.979
Tl 190.794	4799.94	4797.94	4844.30
V 292.401	4790.80	4775.03	4813.41
Zn 206.200	2480.53	2467.16	2502.02

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	473.197	ppb	4.0566	0.9	38187.9	94.63948
Al 308.215	4709.94	ppb	23.2296	0.5	21909.9	94.19871
As 188.980	484.776	ppb	9.6972	2.0	225.439	96.95525
B 249.678	487.176	ppb	4.9460	1.0	6729.50	19.48704Q
Ba 389.178	4983.98	ppb	20.8088	0.4	115834	99.67970
Be 313.042	496.221	ppb	1.0669	0.2	941714	99.24415
Ca 370.602	4852	ppb	23.59	0.5	15477	97.03637
Cd 226.502	489.004	ppb	2.8718	0.6	20329.2	97.80087
Co 228.615	500.874	ppb	3.2748	0.7	6787.23	100.17488
Cr 267.716	4994.48	ppb	20.3142	0.4	263839	99.88966
Cu 324.754	4974.46	ppb	46.1965	0.9	234932	99.48922
Fe 271.441	4779.64	ppb	28.9201	0.6	9158.47	95.59271
K 766.491	10034.0	ppb	8.5841	0.1	387076	100.33958
Mg 279.078	4770.68	ppb	27.7819	0.6	11064.7	95.41361
Mn 257.610	5078.85	ppb	26.5720	0.5	1357888	101.57698
Mo 202.032	474.990	ppb	1.8134	0.4	3889.40	94.99802
Na 330.237	6941.30	ppb	101.537	1.5	422.084	92.55067
Ni 231.604	2475.37	ppb	14.0830	0.6	7675.49	99.01485
Pb 220.353	473.578	ppb	3.5265	0.7	1016.45	94.71553
Sb 206.834	940.574	ppb	5.3889	0.6	1223.34	94.05740
Se 196.026	4711.44	ppb	21.9346	0.5	2619.11	94.22887
Sn 189.925	4788.36	ppb	33.6339	0.7	4846.77	95.76713
Sr 216.596	2431.35	ppb	22.7138	0.9	31224.0	97.25387
Ti 334.941	482.979	ppb	1.8256	0.4	148411	96.59587
Tl 190.794	4814.06	ppb	26.2078	0.5	5324.80	96.28121
V 292.401	4793.08	ppb	19.2876	0.4	140031	95.86161
Zn 206.200	2483.24	ppb	17.5890	0.7	4032.03	99.32951

**Cont Calib Blank (CCB)                      5/8/2013, 12:00:33 PM                      Rack 4, Tube 38**  
**Weight: 1    Volume: 1    Dilution: 1**

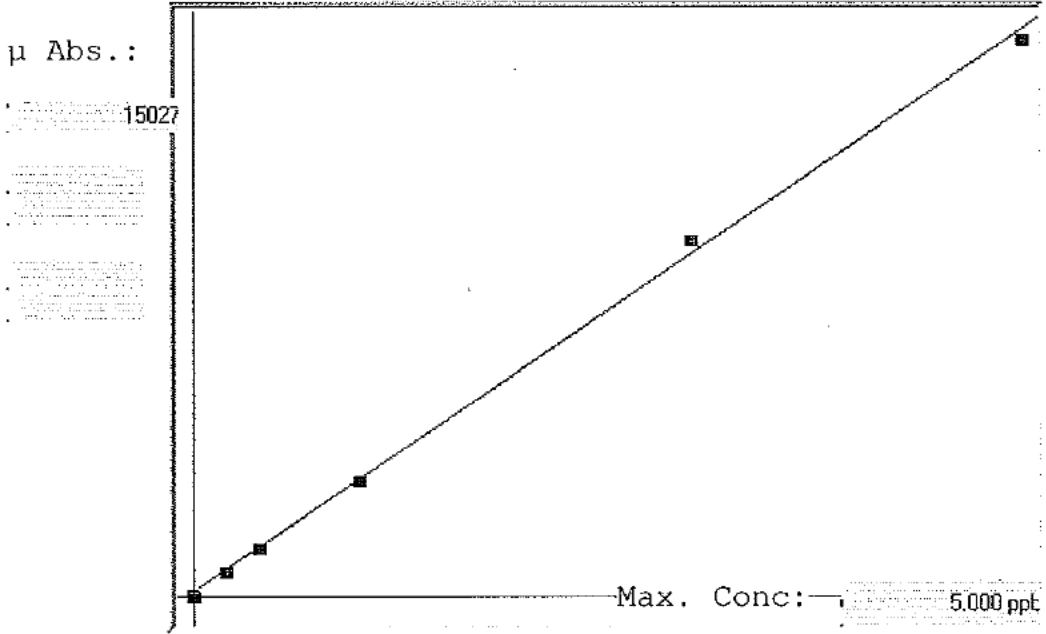
Label	Replicates Concentration		
Ag 328.068	0.1174	-0.1679u	-0.0981u
Al 308.215	-2.0381u	0.3929	-1.4427u
As 188.980	-2.9923u	6.1948	-0.6085u
B 249.678	6.4269	5.3479	5.9320
Ba 389.178	-0.8085u	1.0266	-0.6150u
Be 313.042	0.0053	0.0050	0.0017
Ca 370.602	-1.241u	1.782	5.397
Cd 226.502	-0.1899u	-0.0678u	0.0161
Co 228.615	-0.4560u	0.4334	-0.2049u
Cr 267.716	-0.0541u	-0.0567u	-0.1557u
Cu 324.754	-0.0782u	0.5079	0.5501
Fe 271.441	3.1167	-0.0905u	-1.3775u
K 766.491	-2.4400u	-2.2162u	-2.2416u
Mg 279.078	0.1442	-2.3652u	2.8940
Mn 257.610	-0.0759u	-0.0812u	-0.0324u
Mo 202.032	-0.0904u	-0.0953u	0.2389
Na 330.237	-156.854u	-255.389u	103.832
Ni 231.604	0.1626	0.4887	1.2669
Pb 220.353	0.1429	1.2747	0.5513
Sb 206.834	7.9260	6.5217	5.5097
Se 196.026	3.3525	-5.9070u	-13.3936u
Sn 189.925	0.7025	5.4160	2.6047
Sr 216.596	-0.3524u	-0.0914u	0.0199
Ti 334.941	0.1466	0.1290	0.1485
Tl 190.794	1.3010	2.0249	2.6144
V 292.401	0.3396	-0.0730u	-0.0049u
Zn 206.200	0.3986	1.3868	0.9416

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0496	ppb	0.1487	300.1	-24.9979	-0.04956
Al 308.215	-1.0293	ppb	1.2671	123.1	67.5359	-1.02933
As 188.980	0.8647	ppb	4.7674	551.3	-6.3132	0.86469
B 249.678	5.9023	ppb	0.5401	9.2	226.945	5.90228
Ba 389.178	-0.1323	ppb	1.0083	762.3	2.4655	-0.13227
Be 313.042	0.0040	ppb	0.0020	50.1	-369.432	0.00400
Ca 370.602	1.979	ppb	3.323	167.9	14.18	1.97947
Cd 226.502	-0.0805	ppb	0.1035	128.6	33.9284	-0.08055
Co 228.615	-0.0759	ppb	0.4585	604.5	6.4774	-0.07585
Cr 267.716	-0.0888	ppb	0.0579	65.2	12.7823	-0.08883
Cu 324.754	0.3266	ppb	0.3512	107.5	278.565	0.32660
Fe 271.441	0.5496	ppb	2.3145	421.1	108.756	0.54956
K 766.491	-2.2993	ppb	0.1226	5.3	281.964	-2.29927
Mg 279.078	0.2243	ppb	2.6305	1172.8	39.6899	0.22430
Mn 257.610	-0.0632	ppb	0.0268	42.4	56.9430	-0.06318
Mo 202.032	0.0177	ppb	0.1916	1080.6	17.0239	0.01773
Na 330.237	-102.804	ppb	185.610	180.5	63.3470	-102.80368
Ni 231.604	0.6394	ppb	0.5674	88.7	-3.8586	0.63939
Pb 220.353	0.6563	ppb	0.5732	87.3	33.0053	0.65630
Sb 206.834	6.6524	ppb	1.2134	18.2	11.8398	6.65244
Se 196.026	-5.3160	ppb	8.3887	157.8	8.8222	-5.31605
Sn 189.925	2.9077	ppb	2.3713	81.6	-9.5333	2.90772
Sr 216.596	-0.1413	ppb	0.1911	135.2	18.4576	-0.14130
Ti 334.941	0.1413	ppb	0.0108	7.6	1.7113	0.14134
Tl 190.794	1.9801	ppb	0.6578	33.2	-13.4874	1.98009
V 292.401	0.0872	ppb	0.2212	253.6	-6.0838	0.08723
Zn 206.200	0.9090	ppb	0.4949	54.4	30.5721	0.90900



Hg Norm2

Linear



A= 0.0000e+000  
 B= 3.2950e-004  
 C= -4.2664e-002  
 Rho= 0.9992387  
 Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	-0.034	-0.034	26	2.625	25	24	30		
0.2	0.200	0.185	-0.015	690	1.3 %	678	694	699		
0.4	0.400	0.396	-0.004	1331	1.6 %	1302	1338	1354		
1.0	1.000	1.001	0.001	3168	0.4 %	3155	3164	3186		
3.0	3.000	3.143	0.143	9668	1.6 %	9477	9671	9857		
5.0	5.000	4.909	-0.091	15027	0.2 %	14993	15050	15038		

## C05082013A

Method: Hg Norm2

Operator: Admin

Date of Analysis: 08 May 2013 12:08:40

Sample ID	Extended ID	Mean	Units	RSD	Date
blank		26	ppb	9.9671	08 May 2013 12:09:51
0.2		690	ppb	1.2974	08 May 2013 12:12:17
0.4		1331	ppb	1.6334	08 May 2013 12:14:44
1.0		3168	ppb	0.4110	08 May 2013 12:17:13
3.0		9668	ppb	1.6047	08 May 2013 12:19:40
5.0		15027	ppb	0.1633	08 May 2013 12:22:06
ICV		2.9413	ppb	1.4783	08 May 2013 12:24:33
ICB		-0.0394	ppb	-1.3668	08 May 2013 12:26:59
CRA		0.1757	ppb	1.3895	08 May 2013 12:29:26
CCV		2.6691	ppb	0.8813	08 May 2013 12:31:53
CCB		-0.0405	ppb	-2.7679	08 May 2013 12:34:20
mb 680-275809/1-b	(BCB)	-0.0383	ppb	-2.8411	08 May 2013 12:36:47
lcs 680-275809/2-b	(BCB)	2.4523	ppb	0.8516	08 May 2013 12:39:13
680-89736-e-13-f	(BCB)	-0.0408	ppb	-3.2531	08 May 2013 12:41:40
680-89736-e-14-f	(BCB)	-0.0397	ppb	-1.7931	08 May 2013 12:44:06
680-89736-e-15-f	(BCB)	-0.0301	ppb	-3.2182	08 May 2013 12:46:32
680-89736-e-16-f	(BCB)	-0.0423	ppb	-0.6355	08 May 2013 12:48:58
680-89736-e-17-f	(BCB)	-0.0438	ppb	-1.8782	08 May 2013 12:51:24
680-89736-e-18-f	(BCB)	-0.0397	ppb	-0.6777	08 May 2013 12:53:51
680-89736-e-19-f	(BCB)	-0.0386	ppb	-0.4024	08 May 2013 12:56:18
680-89736-e-20-f	(BCB)	-0.0433	ppb	-0.6210	08 May 2013 12:58:45
CCV		2.8073	ppb	1.0086	08 May 2013 13:01:14
CCB		-0.0371	ppb	-1.2573	08 May 2013 13:03:42
680-89736-e-21-f	(BCB)	-0.0427	ppb	-1.0922	08 May 2013 13:06:09
680-89736-e-22-f	(BCB)	-0.0455	ppb	-1.2304	08 May 2013 13:08:37
680-89736-a-23-f	(BCB)	-0.0444	ppb	-0.6994	08 May 2013 13:11:05
680-90013-a-1-b	(BCB)	-0.0354	ppb	-1.3158	08 May 2013 13:13:31
680-90013-d-3-b	(BCB)	-0.0379	ppb	-1.7845	08 May 2013 13:15:58
680-90013-a-5-b	(BCB)	-0.0361	ppb	-1.4916	08 May 2013 13:18:26
680-90013-d-6-d	(BCB)	-0.0371	ppb	-1.4518	08 May 2013 13:20:54
680-90013-d-6-e ms	(BCB)	0.7097	ppb	0.8394	08 May 2013 13:23:23
680-90013-d-6-f msd	(BCB)	0.8171	ppb	0.7291	08 May 2013 13:25:51
mb 680-275798/1-a	(BCB)	-0.0301	ppb	-4.9695	08 May 2013 13:28:17
CCV		2.7320	ppb	0.7632	08 May 2013 13:30:44
CCB		-0.0353	ppb	-1.9178	08 May 2013 13:33:12
lb 680-275428/16-d	(BCB)	-0.0396	ppb	-1.5695	08 May 2013 13:35:39
lcs 680-275798/3-a	(BCB)	2.8259	ppb	1.9472	08 May 2013 13:38:06
680-89882-a-1-e	(BCB)	-0.0434	ppb	-1.9912	08 May 2013 13:40:34
680-89882-a-1-f ms	(BCB)	0.7034	ppb	0.5792	08 May 2013 13:43:03
680-89882-a-1-g msd	(BCB)	0.7410	ppb	0.5498	08 May 2013 13:45:31
680-89916-a-1-c	(BCB)	-0.0404	ppb	-1.9999	08 May 2013 13:47:59
680-89920-a-1-d	(BCB)	-0.0377	ppb	-3.2684	08 May 2013 13:50:27
lb 680-275485/6-c	(BCB)	-0.0416	ppb	-0.9887	08 May 2013 13:52:53
680-89882-a-5-c	(BCB)	-0.0387	ppb	-2.5059	08 May 2013 13:55:21
680-89882-a-5-d ms	(BCB)	0.7779	ppb	0.6473	08 May 2013 13:57:50
CCV		2.7832	ppb	1.3840	08 May 2013 14:00:17
CCB		-0.0264	ppb	-3.1124	08 May 2013 14:02:45
680-89882-a-5-e msd	(BCB)	0.7051	ppb	0.6085	08 May 2013 14:05:13
680-89882-a-3-c	(BCB)	-0.0300	ppb	-2.2544	08 May 2013 14:07:40
lb 680-275293/12-c	(BCB)	-0.0394	ppb	-2.3673	08 May 2013 14:10:07
680-89836-a-1-c	(BCB)	-0.0329	ppb	-4.6516	08 May 2013 14:12:35
680-89836-a-1-d ms	(BCB)	0.7544	ppb	1.3453	08 May 2013 14:15:03
680-89836-a-1-e msd	(BCB)	0.7845	ppb	1.4294	08 May 2013 14:17:31
680-89843-c-2-e	(BCB)	-0.0408	ppb	-0.7615	08 May 2013 14:19:59
680-89872-b-1-c	(BCB)	-0.0352	ppb	-0.8827	08 May 2013 14:22:25
680-89843-c-1-c	(BCB)	-0.0391	ppb	-1.0497	08 May 2013 14:24:53
mb 680-275787/1-a	(BCB)	-0.0351	ppb	-2.6563	08 May 2013 14:27:20
CCV		2.6953	ppb	1.3342	08 May 2013 14:29:47
CCB		-0.0299	ppb	-4.2490	08 May 2013 14:32:15
lcs 680-275787/2-a	(BCB)	2.6351	ppb	1.3223	08 May 2013 14:34:42
680-89765-a-1-d	(BCB)	-0.0267	ppb	-1.1619	08 May 2013 14:37:10
680-89765-a-1-e ms	(BCB)	0.9670	ppb	0.3673	08 May 2013 14:39:38
680-89765-a-1-f msd	(BCB)	0.9887	ppb	0.3474	08 May 2013 14:42:05
640-43433-b-1-a	(BCB)	-0.0342	ppb	-0.4541	08 May 2013 14:44:33
640-43433-b-2-a	(BCB)	-0.0260	ppb	-3.3303	08 May 2013 14:47:01
640-43435-a-1-b	(BCB)	-0.0311	ppb	-1.7284	08 May 2013 14:49:29
640-43435-a-2-b	(BCB)	-0.0293	ppb	-2.3137	08 May 2013 14:51:57



## C05082013A

Method: Hg Norm2

Operator: Admn

Date of Analysis: 08 May 2013 12:08:40

Sample ID	Extended ID	Mean	Units	RSD	Date
680-89899-g-1-b	(BCB)	-0.0315	ppb	-0.8552	08 May 2013 14:54:25
680-89899-g-2-d	(BCB)	-0.0239	ppb	-1.1265	08 May 2013 14:56:52
CCV		2.7155	ppb	0.5053	08 May 2013 14:59:19
CCB		-0.0330	ppb	-3.2951	08 May 2013 15:01:46
680-89961-f-4-a	(BCB)	-0.0259	ppb	-3.7512	08 May 2013 15:04:12
680-89961-f-9-a	(BCB)	-0.0310	ppb	-1.8054	08 May 2013 15:06:39
CCV		2.7896	ppb	1.6482	08 May 2013 15:09:06
CCB		-0.0323	ppb	-1.2708	08 May 2013 15:11:33
CCV		2.6537	ppb	0.4101	08 May 2013 15:54:09
CCB		-0.0312	ppb	-1.3155	08 May 2013 15:56:36
mb 680-275755/1-a	(BCB)	-0.0363	ppb	-0.4280	08 May 2013 15:59:02
lcs 680-275755/2-a	(BCB)	2.7626	ppb	0.6516	08 May 2013 16:01:28
llcs 680-275755/3-a	(BCB)	0.2090	ppb	1.6605	08 May 2013 16:03:54
680-90006-d-5-a	(BCB)	-0.0020	ppb	-15.3424	08 May 2013 16:06:22
680-90006-d-5-b ms	(BCB)	1.0141	ppb	1.1543	08 May 2013 16:08:49
680-90006-d-5-c msd	(BCB)	0.9987	ppb	0.3028	08 May 2013 16:11:16
680-89970-b-1-b	(BCB)	-0.0262	ppb	-3.7040	08 May 2013 16:13:43
680-89942-e-1-b	(BCB)	-0.0415	ppb	-1.3510	08 May 2013 16:16:10
680-89942-e-2-b	(BCB)	-0.0357	ppb	-2.2580	08 May 2013 16:18:37
680-89942-e-3-b	(BCB)	-0.0310	ppb	-1.8054	08 May 2013 16:21:06
CCV		2.6062	ppb	1.6082	08 May 2013 16:23:33
CCB		-0.0354	ppb	-2.0099	08 May 2013 16:26:02
680-89942-e-4-b	(BCB)	-0.0443	ppb	-1.2143	08 May 2013 16:28:28
680-89996-h-1-b	(BCB)	-0.0359	ppb	-0.4332	08 May 2013 16:30:57
mb 680-275763/1-a	(BCB)	-0.0272	ppb	-1.7146	08 May 2013 16:33:26
lcs 680-275763/2-a	(BCB)	2.5616	ppb	0.2556	08 May 2013 16:35:53
llcs 680-275763/3-a	(BCB)	0.1720	ppb	2.5293	08 May 2013 16:38:20
680-89934-a-1-b	(BCB)	-0.0184	ppb	-3.3785	08 May 2013 16:40:47
680-89934-a-1-c ms	(BCB)	1.3477	ppb	0.2718	08 May 2013 16:43:14
680-89934-a-1-d msd	(BCB)	0.8761	ppb	0.9122	08 May 2013 16:45:41
640-43392-i-1-b	(BCB)	-0.0242	ppb	-1.1112	08 May 2013 16:48:08
680-89851-d-1-b	(BCB)	-0.0261	ppb	-1.1912	08 May 2013 16:50:37
CCV		2.6461	ppb	1.1682	08 May 2013 16:53:04
CCB		-0.0317	ppb	-2.5945	08 May 2013 16:55:31
680-89871-e-2-b	(BCB)	-0.0218	ppb	-8.2191	08 May 2013 16:57:58
680-89873-g-2-a	(BCB)	-0.0104	ppb	-4.4926	08 May 2013 17:00:25
680-89876-e-1-a	(BCB)	-0.0178	ppb	-1.7413	08 May 2013 17:02:55
680-89876-e-2-a	(BCB)	0.0104	ppb	2.5903	08 May 2013 17:05:23
680-89876-e-3-a	(BCB)	-0.0312	ppb	-2.1672	08 May 2013 17:07:51
680-89876-e-4-a	(BCB)	-0.0249	ppb	-2.8621	08 May 2013 17:10:19
680-89876-e-5-a	(BCB)	-0.0250	ppb	-3.4621	08 May 2013 17:12:47
680-89934-b-2-b	(BCB)	8.8287	ppb	0.9005	08 May 2013 17:15:15
680-89934-b-2-c ms	(BCB)	9.2369	ppb	0.4471	08 May 2013 17:17:42
680-89934-b-2-d msd	(BCB)	9.2306	ppb	1.2296	08 May 2013 17:20:10
CCV		2.6264	ppb	0.1222	08 May 2013 17:22:38
CCB		-0.0308	ppb	-1.5129	08 May 2013 17:25:07
680-89876-e-6-a	(BCB)	-0.0217	ppb	-1.8951	08 May 2013 17:27:35
680-89876-e-7-a	(BCB)	-0.0259	ppb	-2.7527	08 May 2013 17:30:03
680-89876-e-8-a	(BCB)	-0.0237	ppb	-1.7368	08 May 2013 17:32:30
680-89876-e-9-a	(BCB)	-0.0160	ppb	-1.6842	08 May 2013 17:34:59
680-89876-e-10-a	(BCB)	-0.0130	ppb	-4.1364	08 May 2013 17:37:28
680-89896-c-23-b	(BCB)	-0.0296	ppb	-1.8925	08 May 2013 17:39:57
680-89900-f-1-b	(BCB)	-0.0317	ppb	-3.4321	08 May 2013 17:42:26
mb 680-275782/1-b	(BCB)	-0.0207	ppb	-4.1786	08 May 2013 17:44:55
lcs 680-275782/2-b	(BCB)	2.7687	ppb	1.8322	08 May 2013 17:47:22
llcs 680-275782/3-b	(BCB)	0.1637	ppb	0.0949	08 May 2013 17:49:50
CCV		2.6977	ppb	0.2986	08 May 2013 17:52:17
CCB		-0.0308	ppb	-3.1493	08 May 2013 17:54:45
680-89876-d-1-d	(BCB)	-0.0227	ppb	-2.9861	08 May 2013 17:57:15
680-89876-d-1-e ms	(BCB)	1.0314	ppb	0.5633	08 May 2013 17:59:44
680-89876-d-1-f msd	(BCB)	0.9721	ppb	0.5755	08 May 2013 18:02:12
680-89876-c-2-c	(BCB)	-0.0312	ppb	-3.2604	08 May 2013 18:04:41
680-89876-b-3-c	(BCB)	-0.0303	ppb	-1.8513	08 May 2013 18:07:09
680-89876-b-4-c	(BCB)	-0.0331	ppb	-2.1500	08 May 2013 18:09:38
680-89876-b-5-c	(BCB)	-0.0318	ppb	-1.6926	08 May 2013 18:12:07
680-89876-c-6-c	(BCB)	-0.0319	ppb	-1.2883	08 May 2013 18:14:36
680-89876-c-7-b	(BCB)	-0.0326	ppb	-2.6562	08 May 2013 18:17:06

## C05082013A

Method: Hg Norm2

Operator: Admin

Date of Analysis: 08 May 2013 12:08:40

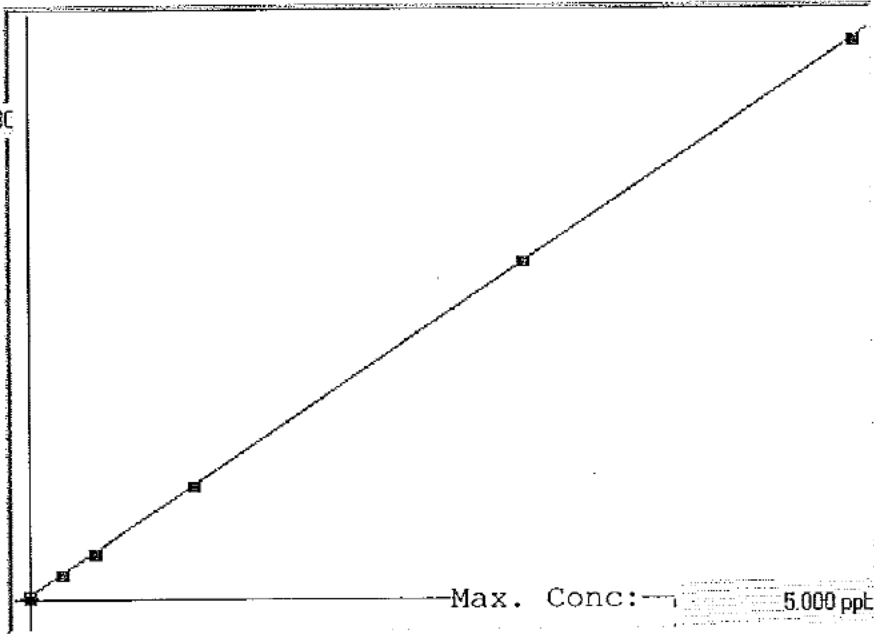
Sample ID	Extended ID	Mean	Units	RSD	Date
680-89876-c-8-b	(BCB)	-0.0211	ppb	-3.8887	08 May 2013 18:19:34
CCV		2.7189	ppb	1.4129	08 May 2013 18:22:05
CCB		-0.0319	ppb	-3.4085	08 May 2013 18:24:35
680-89876-b-9-b	(BCB)	-0.0320	ppb	-2.1152	08 May 2013 18:27:04
680-89876-b-10-c	(BCB)	-0.0255	ppb	-2.7882	08 May 2013 18:29:33
680-89942-b-4-e	(BCB)	-0.0407	ppb	-1.3225	08 May 2013 18:32:02
680-89942-b-4-f msd	(BCB)	0.9478	ppb	1.2363	08 May 2013 18:34:30
680-89942-b-4-g msd	(BCB)	0.9184	ppb	1.0840	08 May 2013 18:37:00
680-89942-b-3-c	(BCB)	-0.0332	ppb	-0.4676	08 May 2013 18:39:31
680-89942-b-2-c	(BCB)	-0.0329	ppb	-2.4991	08 May 2013 18:42:03
680-89942-b-1-e	(BCB)	-0.0019	ppb	-49.3385	08 May 2013 18:44:34
CCV		2.6462	ppb	0.9443	08 May 2013 18:47:04
CCB		-0.0344	ppb	-1.5630	08 May 2013 18:49:32
CCV		(L)1.9448	ppb	2.0346	09 May 2013 09:43:52
CCB		-0.0460	ppb	-0.5854	09 May 2013 09:46:19
680-89934-b-2-b	^5(BCB)	1.9836	ppb	0.3351	09 May 2013 09:48:45
680-89934-b-2-c ms	^5(BCB)	2.1963	ppb	0.2881	09 May 2013 09:51:11
680-89934-b-2-d msd	^5(BCB)	2.1859	ppb	0.5936	09 May 2013 09:53:40
CCV		2.3210	ppb	1.6611	09 May 2013 09:56:10
CCB		-0.0374	ppb	-3.2972	09 May 2013 09:58:41

Hg Norm2

Linear

μ Abs. :

18130



A= 0.0000e+000

B= 2.7675e-004

C= -2.9670e-002

Rho= 0.9999824

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	-0.011	-0.011	68	1.633	68	70	66		
0.2	0.200	0.199	-0.001	826	1.0 %	815	828	836		
0.4	0.400	0.396	-0.004	1537	0.4 %	1529	1539	1543		
1.0	1.000	1.011	0.011	3762	1.4 %	3695	3766	3825		
3.0	3.000	3.017	0.017	11008	0.7 %	10931	10985	11109		
5.0	5.000	4.988	-0.012	18130	0.5 %	18042	18101	18248		

## C05102013

Method: Hg Norm2

Operator: Admin

Date of Analysis: 10 May 2013 09:51:12

Sample ID	Extended ID	Mean	Units	RSD	Date
blank		6	ppb	54.5507	10 May 2013 09:53:48
0.2		169	ppb	20.5970	10 May 2013 09:56:13
0.4		1	ppb	254.9510	10 May 2013 09:58:40
1.0		0	ppb	-1.#IND	10 May 2013 10:01:08
blank		64	ppb	6.4549	10 May 2013 10:05:15
0.2		763	ppb	0.9808	10 May 2013 10:07:41
0.4		-3	ppb	-72.0082	10 May 2013 10:10:10
1.0		0	ppb	-1.#IND	10 May 2013 10:12:38
blank		68	ppb	2.4015	10 May 2013 10:29:33
0.2		826	ppb	1.0473	10 May 2013 10:31:59
0.4		1537	ppb	0.3831	10 May 2013 10:34:27
1.0		3762	ppb	1.4127	10 May 2013 10:36:55
3.0		11008	ppb	0.6769	10 May 2013 10:39:22
5.0		18130	ppb	0.4778	10 May 2013 10:41:48
ICV		3.0618	ppb	0.7593	10 May 2013 10:44:14
ICB		-0.0180	ppb	-5.4578	10 May 2013 10:46:40
CRA		0.1971	ppb	1.2043	10 May 2013 10:49:06
CCV		2.6274	ppb	0.1057	10 May 2013 10:51:36
CCB		-0.0175	ppb	-2.2373	10 May 2013 10:54:05
mb 680-275959/1-a	(BCB)	0.0031	ppb	30.5603	10 May 2013 10:56:31
lcs 680-275959/2-a	(BCB)	2.8098	ppb	1.3230	10 May 2013 10:58:57
680-89957-a-1-b	(BCB)	0.0973	ppb	1.2795	10 May 2013 11:01:26
680-89957-a-1-c ms	(BCB)	1.1755	ppb	0.5768	10 May 2013 11:03:54
680-89957-a-1-d msd	(BCB)	1.1620	ppb	0.3947	10 May 2013 11:06:20
680-89957-a-2-b	(BCB)	0.1631	ppb	0.5598	10 May 2013 11:08:46
680-89957-a-3-b	(BCB)	0.9549	ppb	0.4169	10 May 2013 11:11:14
680-89957-a-4-b	(BCB)	0.2546	ppb	0.4554	10 May 2013 11:13:42
680-89957-a-5-b	(BCB)	0.4845	ppb	0.7329	10 May 2013 11:16:09
680-89957-a-6-b	(BCB)	0.5989	ppb	1.0976	10 May 2013 11:18:36
CCV		2.5155	ppb	0.2855	10 May 2013 11:21:05
CCB		-0.0207	ppb	-2.5183	10 May 2013 11:23:32
680-89957-a-7-b	(BCB)	0.5265	ppb	1.1819	10 May 2013 11:25:59
680-89957-a-8-b	(BCB)	0.8276	ppb	1.0940	10 May 2013 11:28:27
680-89957-a-9-b	(BCB)	0.8734	ppb	0.9580	10 May 2013 11:30:54
680-89957-a-10-b	(BCB)	0.2889	ppb	0.2070	10 May 2013 11:33:22
680-89957-a-11-b	(BCB)	0.2769	ppb	0.8256	10 May 2013 11:35:49
680-89957-a-12-b	(BCB)	0.5534	ppb	0.7562	10 May 2013 11:38:17
680-89957-a-13-b	(BCB)	0.3552	ppb	0.4688	10 May 2013 11:40:43
680-89957-a-14-b	(BCB)	0.3557	ppb	1.5696	10 May 2013 11:43:10
680-89957-a-15-b	(BCB)	0.8468	ppb	0.3407	10 May 2013 11:45:37
680-89957-a-16-b	(BCB)	0.1403	ppb	1.0351	10 May 2013 11:48:03
CCV		2.5977	ppb	0.9537	10 May 2013 11:50:30
CCB		-0.0112	ppb	-8.1390	10 May 2013 11:52:56
680-89957-a-17-d	(BCB)	0.6467	ppb	1.0312	10 May 2013 11:55:24
680-89957-a-18-b	(BCB)	2.6961	ppb	0.9985	10 May 2013 11:57:51
680-89957-a-19-b	(BCB)	0.6998	ppb	0.5712	10 May 2013 12:00:18
680-89957-a-20-b	(BCB)	0.6049	ppb	0.2450	10 May 2013 12:02:47
mb 680-275956/1-a	(BCB)	-0.0073	ppb	-8.8799	10 May 2013 12:05:14
lcs 680-275956/2-a	(BCB)	2.3249	ppb	0.4665	10 May 2013 12:07:41
680-89958-a-1-d	(BCB)	0.2589	ppb	2.2293	10 May 2013 12:10:08
680-89958-b-2-b	(BCB)	0.2346	ppb	0.8668	10 May 2013 12:12:34
680-89958-a-3-b	(BCB)	0.0693	ppb	1.9651	10 May 2013 12:15:03
680-89958-b-4-b	(BCB)	0.1465	ppb	1.9829	10 May 2013 12:17:29
CCV		2.4019	ppb	1.8207	10 May 2013 12:19:57
CCB		-0.0212	ppb	-2.4635	10 May 2013 12:22:24
680-89958-a-5-b	(BCB)	0.1213	ppb	1.6897	10 May 2013 12:24:50
640-43463-a-3-b	(BCB)	0.1047	ppb	1.4037	10 May 2013 12:27:17
680-89985-b-16-b	(BCB)	5.6953	ppb	0.9862	10 May 2013 12:29:45
680-89985-a-27-b	(BCB)	1.5712	ppb	1.9222	10 May 2013 12:32:12
680-89985-a-28-b	(BCB)	3.3727	ppb	1.2537	10 May 2013 12:34:40
680-89985-a-29-b	^5(BCB)	1.1492	ppb	0.6122	10 May 2013 12:37:09
680-89985-a-29-c ms	^5(BCB)	1.3490	ppb	1.0397	10 May 2013 12:39:38
680-89985-a-29-d msd	^5(BCB)	1.4949	ppb	1.8800	10 May 2013 12:42:05
680-90061-a-1-a	(BCB)	0.0454	ppb	2.7400	10 May 2013 12:44:32
680-89896-b-4-d	(BCB)	2.2869	ppb	0.8546	10 May 2013 12:46:59
CCV		2.3857	ppb	1.0629	10 May 2013 12:49:26
CCB		-0.0180	ppb	-1.9224	10 May 2013 12:51:53

## C05102013

Method: Hg Norm2

Operator: Admin

Date of Analysis: 10 May 2013 09:51:12

Sample ID	Extended ID	Mean	Units	RSD	Date
680-89896-b-4-e ms	(BCB)	2.8187	ppb	0.3405	10 May 2013 12:54:20
680-89896-b-4-f msd	(BCB)	3.3790	ppb	1.0723	10 May 2013 12:56:47
680-89896-b-6-b	(BCB)	1.4909	ppb	1.0038	10 May 2013 12:59:16
680-89896-b-18-b	(BCB)	2.8311	ppb	0.4717	10 May 2013 13:01:43
680-89896-a-20-b	(BCB)	1.3407	ppb	1.3738	10 May 2013 13:04:09
680-89896-a-21-b	(BCB)	2.3888	ppb	1.4340	10 May 2013 13:06:38
680-89896-a-22-b	(BCB)	3.4300	ppb	1.4978	10 May 2013 13:09:06
lb 680-275485/6-d	(BCB)	-0.0253	ppb	-2.7249	10 May 2013 13:11:35
680-89882-a-2-g	(BCB)	0.0027	ppb	8.3401	10 May 2013 13:14:04
680-89926-a-1-c	(BCB)	-0.0081	ppb	-5.5905	10 May 2013 13:16:33
CCV		2.3658	ppb	1.5651	10 May 2013 13:19:01
CCB		-0.0173	ppb	-3.2854	10 May 2013 13:21:29
680-89927-a-1-c	(BCB)	0.0727	ppb	1.0763	10 May 2013 13:23:56
680-89927-a-1-d ms	(BCB)	0.7912	ppb	0.7573	10 May 2013 13:26:23
680-89927-a-1-e msd	(BCB)	0.7569	ppb	0.7855	10 May 2013 13:28:51
CCV		2.3873	ppb	1.4960	10 May 2013 13:31:19
CCB		-0.0213	ppb	-2.4528	10 May 2013 13:33:47
680-89985-b-16-b	^5	1.0941	ppb	0.5937	10 May 2013 13:43:00
CCV		2.2972	ppb	0.3501	10 May 2013 13:45:26
CCB		-0.0221	ppb	-1.5614	10 May 2013 13:47:53

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Batch Number: 275602 Batch Start Date: 05/06/13 09:55 Batch Analyst: Boyuk, Brian

Batch Method: 200.7 Batch End Date: 05/06/13 15:42

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00002	MS_LCS1_WK 00003	MS_LCS2_wk 00144
MB 680-275602/1		200.7, 200.7 Rev 4.4			50 mL	50 mL			
LCS 680-275602/2		200.7, 200.7 Rev 4.4			50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL
680-89896-C-23	050113-RB-Bowls& Spoons	200.7, 200.7 Rev 4.4	T	<2	50 mL	50 mL			
680-89876-A-10 MS		200.7, 200.7 Rev 4.4	T	<2	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL
680-89876-A-10 MSD		200.7, 200.7 Rev 4.4	T	<2	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL

Batch Notes	
Lot # of hydrochloric acid	24317
Lot # of Nitric Acid	L10022
Hood ID or number	FH10
Hot Block ID number	3
Oven, Bath or Block Temperature 1	93 Degrees C
Pipette ID	ME 8
ID number of the thermometer	MEPREP 11
Digestion Tube/Cup Lot #	ML27KK03

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Batch Number: 275575 Batch Start Date: 05/06/13 08:40 Batch Analyst: Lawhon, Jon

Batch Method: 3050B Batch End Date: 05/06/13 13:17

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00002	MS_LCS1_WK 00003	MS_LCS2_wk 00144
MB 680-275575/1		3050B, 6010C		CALC NOT SET TO RUN	1.02 g	100 mL			
LCS 680-275575/2		3050B, 6010C		CALC NOT SET TO RUN	1.01 g	100 mL	1 mL	1 mL	1 mL
680-89896-B-4	CV0731A-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.01 g	100 mL			
680-89896-B-4 MS	CV0731A-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.03 g	100 mL	1 mL	1 mL	1 mL
680-89896-B-4 MSD	CV0731A-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.02 g	100 mL	1 mL	1 mL	1 mL
680-89896-B-6	CV0662A-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.03 g	100 mL			
680-89896-B-18	CV0988A-CSD	3050B, 6010C	T	CALC NOT SET TO RUN	1.13 g	100 mL			
680-89896-A-20	CV0662A-CS-SP (sieve)	3050B, 6010C	T	CALC NOT SET TO RUN	1.04 g	100 mL			
680-89896-A-21	CV0731A-CS-SP (sieve)	3050B, 6010C	T	CALC NOT SET TO RUN	1.15 g	100 mL			
680-89896-A-22	CV0988A-CS-SP (sieve)	3050B, 6010C	T	CALC NOT SET TO RUN	1.08 g	100 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Batch Number: 275575 Batch Start Date: 05/06/13 08:40 Batch Analyst: Lawhon, Jon

Batch Method: 3050B Batch End Date: 05/06/13 13:17

Batch Notes	
Analyst	JL
Balance ID	25
Blank Soil Lot Number	2958846
Hydrogen peroxide lot number	3058306
Lot # of hydrochloric acid	3053717
Lot # of Nitric Acid	3077490
Hood ID or number	FH-8
Hot Block ID number	10
Nominal Amount Used	1.0 g
Pipette ID	ME4
Perform Calculation (0=No, 1=Yes)	0
Temperature	96 Degrees C
ID number of the thermometer	MEPREP15
Digestion Tube/Cup Lot #	J157274-263-100

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.



METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Batch Number: 275755 Batch Start Date: 05/07/13 11:25 Batch Analyst: Umbehr, Uli

Batch Method: 245.1 Batch End Date: 05/08/13 10:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	hg_icvint 00086	Hg_Int_Cal 00092	AnalysisComment	
CCV 680-275755/20		245.1, 245.1		50 mL	50 mL		0.25 mL		
CCB 680-275755/21		245.1, 245.1		50 mL	50 mL				
ICV 680-275755/23		245.1, 245.1		50 mL	50 mL	0.15 mL			
ICB 680-275755/24		245.1, 245.1		50 mL	50 mL				
CRA 680-275755/25		245.1, 245.1		50 mL	50 mL		0.02 mL	0.20 standard used.	

Batch Notes	
Hydroxylamine Sulfate Lot Number	3046703
Hydroxylamine Hydrochloride Lot	3071776
Sulfuric Acid Lot Number	3056255
Lot # of hydrochloric acid	3053715
Lot # of Nitric Acid	3077495
Hood ID or number	5, 6
Hot Block ID number	11, 12
Potassium Persulfate Lot Number	2939890
Potassium Permanganate Lot Number	2975605
NaCL Lot #	2980895
Oven, Bath or Block Temperature 1	95 Degrees C
Oven, Bath or Block Temperature 2	95 Degrees C
Pipette ID	ME1, ME7, ME10
Repittetor Volume Check	05/07/13
Stannous Chloride Lot Number	3001829
SOP Number	ME028
Temperature	95 Degrees C
ID number of the thermometer	ME10
Digestion Tube/Cup Lot #	J161651-263-100
Visual ck - digestate F.V. consistency	Consistent

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

245.1

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Batch Number: 275755 Batch Start Date: 05/07/13 11:25 Batch Analyst: Umbehr, Uli

Batch Method: 245.1 Batch End Date: 05/08/13 10:30

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

245.1

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Batch Number: 275763 Batch Start Date: 05/07/13 12:09 Batch Analyst: Umbehr, Uli

Batch Method: 245.1 Batch End Date: 05/08/13 10:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	Hg_Int_Cal 00092	AnalysisComment
MB 680-275763/1		245.1, 245.1			50 mL	50 mL		
LCS 680-275763/2		245.1, 245.1			50 mL	50 mL	0.25 mL	
680-89934-A-1 MS		245.1, 245.1	T	<2	50 mL	50 mL	0.1 mL	
680-89934-A-1 MSD		245.1, 245.1	T	<2	50 mL	50 mL	0.1 mL	
680-89896-C-23	050113-RB-Bowls& Spoons	245.1, 245.1	T	<2	50 mL	50 mL		250 ml - not enough volume to make this sample an MS/MSD for all required methods.

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

245.1

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Batch Number: 275763 Batch Start Date: 05/07/13 12:09 Batch Analyst: Umbeh, Uli

Batch Method: 245.1 Batch End Date: 05/08/13 10:30

Batch Notes	
Hydroxylamine Sulfate Lot Number	3046703
Hydroxylamine Hydrochloride Lot	3071776
Sulfuric Acid Lot Number	3056255
Lot # of hydrochloric acid	3053715
Lot # of Nitric Acid	3077495
Hood ID or number	5, 6
Hot Block ID number	11, 12
Potassium Persulfate Lot Number	2939890
Potassium Permanganate Lot Number	2975605
NaCL Lot #	2980895
Oven, Bath or Block Temperature 1	96 Degrees C
Oven, Bath or Block Temperature 2	96 Degrees C
Pipette ID	ME1, ME7, ME10
Repittetor Volume Check	05/07/13
Stannous Chloride Lot Number	3001829
SOP Number	ME028
Temperature	96 Degrees C
ID number of the thermometer	ME10
Digestion Tube/Cup Lot #	J161651-263-100
Visual ck - digestate F.V. consistency	Consistent

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

245.1

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Batch Number: 275956 Batch Start Date: 05/08/13 12:47 Batch Analyst: Umbehr, Uli

Batch Method: 7471B Batch End Date: 05/08/13 17:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	hg_icvint 00086	Hg_Int_Cal 00092		
MB 680-275956/1		7471B, 7471B		0.50 g	50 mL				
LCS 680-275956/2		7471B, 7471B		0.51 g	50 mL		0.25 mL		
680-89896-B-4	CV0731A-CS-SP	7471B, 7471B	T	0.59 g	50 mL				
680-89896-B-4 MS	CV0731A-CS-SP	7471B, 7471B	T	0.53 g	50 mL		0.1 mL		
680-89896-B-4 MSD	CV0731A-CS-SP	7471B, 7471B	T	0.58 g	50 mL		0.1 mL		
680-89896-B-6	CV0662A-CS-SP	7471B, 7471B	T	0.59 g	50 mL				
680-89896-B-18	CV0988A-CSD	7471B, 7471B	T	0.54 g	50 mL				
680-89896-A-20	CV0662A-CS-SP (sieve)	7471B, 7471B	T	0.52 g	50 mL				
680-89896-A-21	CV0731A-CS-SP (sieve)	7471B, 7471B	T	0.58 g	50 mL				
680-89896-A-22	CV0988A-CS-SP (sieve)	7471B, 7471B	T	0.58 g	50 mL				
CCV 680-275956/37		7471B, 7471B		50 mL	50 mL		0.25 mL		
CCB 680-275956/38		7471B, 7471B		50 mL	50 mL				
ICV 680-275956/40		7471B, 7471B		50 mL	50 mL	0.15 mL			
ICB 680-275956/41		7471B, 7471B		50 mL	50 mL				
CRA 680-275956/42		7471B, 7471B		50 mL	50 mL		0.02 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-89896-2

SDG No.: 68089896-2

Batch Number: 275956 Batch Start Date: 05/08/13 12:47 Batch Analyst: Umbehr, Uli

Batch Method: 7471B Batch End Date: 05/08/13 17:15

Batch Notes	
Hydroxylamine Sulfate Lot Number	3046699
Hydroxylamine Hydrochloride Lot	3046705
Aqua Regia Lot Number	3065406
Balance ID	27
Blank Soil Lot Number	2021822
Sulfuric Acid Lot Number	3056255
Lot # of hydrochloric acid	3053715
Lot # of Nitric Acid	3053246
Hood ID or number	WB2
Hot Block ID number	11, 12
Potassium Persulfate Lot Number	3001730
Potassium Permanganate Lot Number	2384878
NaCL Lot #	2891381
Nominal Amount Used	0.5 - 0.6 g g
Oven, Bath or Block Temperature 1	95 Degrees C
Oven, Bath or Block Temperature 2	95 Degrees C
Pipette ID	ME1, ME7, ME10
Repittetor Volume Check	04/05/13
Stannous Chloride Lot Number	3038842
SOP Number	ME028
ID number of the thermometer	ME9, ME10
Digestion Tube/Cup Lot #	J157274-263-100
Uncorrected Temperature	95 Celsius
Uncorrected Temperature 2	95 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Test Am Tampa

Phone:  
Fax:


PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005198-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS										PAGE <i>1</i>	OF <i>2</i>		
TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH PCRA 8 Metals	PRESERVATIVE												STANDARD REPORT DELIVERY DATE DUE <i>10 calendar Days</i>
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX															EXPEDITED REPORT DELIVERY (SURCHARGE) DATE DUE
CLIENT NAME <i>(b) (6)</i>	CLIENT E-MAIL																
CLIENT ADDRESS <i>(b) (6)</i>																	

COMPANY CONTRACTING THIS WORK (if applicable)

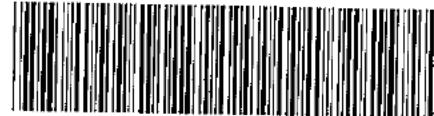
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS
DATE	TIME																	
4-29-13	1424	CVO727A-CS-SP	C	X			X											
	1351	CVO728A-CS-SP	C	X			X											
	1357	CVO728B-CS-SP	C	X			X											
	1322	CVO731A-CS-SP	C	X			X	X										
	1333	CVO731B-CS-SP	C	X			X											
4-30-13	1035	CVO662A-CS-SP	C	X			X	X										
	0910	CVO670A-CS-SP	C	X			X											
	0915	CVO670B-CS-SP	C	X			X											
	0936	CVO670C-CS-SP	C	X			X											
	0948	CVO670D-CS-SP	C	X			X											
	1015	CVO670E-CS-SP	C	X			X											
	1410	CVO466A-CS-SP	C	X			X											

Loc: 680  
**89896**



680-89896 Login  
PM: Harvey, Lisa  
Company: Oneida Total Integrated Enterprise



680-89896-01 Chain of Custody

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>5-1-13</i>	TIME <i>13:30</i>	RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>5/6/13</i>	TIME <i>17:00</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>5-2-13</i>	TIME <i>1030</i>	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>05/03/13</i>	TIME <i>0713</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>89896</i>	LABORATORY REMARKS <i>1.3 CW-07 (2.0°C - Savannah)</i>
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

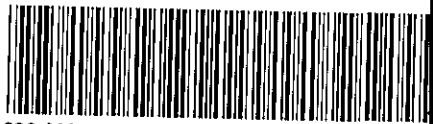
Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location  
*Test Am Tampa*

Phone:  
Fax:

PROJECT REFERENCE <i>35<sup>th</sup> Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS										PAGE <i>2</i> OF <i>2</i>				
TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	<i>LL PAH</i>	<i>PCAS Metals</i>	<i>PRESERVATIVE</i>											STANDARD REPORT DELIVERY DATE DUE <i>10 Calendar Days</i>	
CLIENT NAME <i>(b) (6)</i>	CLIENT E-MAIL	CLIENT PHONE					CLIENT FAX											EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>
CLIENT ADDRESS <i>(b) (6)</i>											DATE DUE _____							
COMPANY CONTRACT NO.											NUMBER OF COOLERS SUBMITTED PER SHIPMENT:							

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS		
DATE	TIME																			
<i>4-30-13</i>	<i>1420</i>	<i>CV0466B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>													
	<i>1240</i>	<i>CV0963A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>													
	<i>1335</i>	<i>CV0964A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>													
	<i>1350</i>	<i>CV0964B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>													
	<i>1310</i>	<i>CV0988A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>													
	<i>1310</i>	<i>CV0988A-CSD</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>												
	<i>1300</i>	<i>CV0988B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>													
<i>4-30-13</i>	<i>1035</i>	<i>CV0662a-co-sp (sieve)</i>	<i>C</i>	<i>X</i>				<i>X</i>												
<i>4-30-13</i>	<i>1302</i>	<i>CV0731A-CS-SP (sieve)</i>	<i>C</i>	<i>X</i>				<i>X</i>												
<i>4-30-13</i>	<i>1310</i>	<i>CV0988A-CS (sieve)</i>	<i>C</i>	<i>X</i>				<i>X</i>												
<i>5-1-13</i>	<i>0930</i>	<i>050113-RB-Bowls + Spoons</i>	<i>X</i>				<i>X</i>	<i>X</i>												



680-89896-02 Chain of Custody

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>5-1-13</i>	TIME <i>1330</i>	RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>5/2/13</i>	TIME <i>1030</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>5-2-13</i>	TIME <i>1030</i>	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>05/03/13</i>	TIME <i>0713</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-89896</i>	LABORATORY REMARKS
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## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89896-2  
SDG Number: 68089896-2

**Login Number: 89896**  
**List Number: 1**  
**Creator: Snead, Joshua**

**List Source: TestAmerica Savannah**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-89896-2

TestAmerica Sample Delivery Group: 68089896-2

Client Project/Site: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, Georgia 30060

Attn: Ms. Limari F Krebs



Authorized for release by:

5/14/2013 4:49:51 PM

Bernard Kirkland, Project Manager I

(912)354-7858 e.3238

[bernard.kirkland@testamericainc.com](mailto:bernard.kirkland@testamericainc.com)

Designee for

Lisa Harvey, Project Manager II

[lisa.harvey@testamericainc.com](mailto:lisa.harvey@testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



### LINKS

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results through

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[www.testamericainc.com](http://www.testamericainc.com)

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## Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
SDG: 68089896-2

**Job ID: 680-89896-2**

**Laboratory: TestAmerica Savannah**

Narrative

### CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-89896-2**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

#### **RECEIPT**

The samples were received on 05/02/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.3 C.

#### **METALS (ICP)-Water**

Sample 050113-RB-Bowls&Spoons (680-89896-23) was analyzed for Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 05/06/2013 and analyzed on 05/07/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

#### **TOTAL MERCURY-Water**

Sample 050113-RB-Bowls&Spoons (680-89896-23) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared on 05/07/2013 and analyzed on 05/08/2013.

Mercury recovered outside the recovery criteria for the MS/MSD of sample 680-89934-1 in batch 680-276087.

Mercury also exceeded the rpd limit for the MSD of sample 680-89934-1 in batch 680-276087.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

No other difficulties were encountered during the mercury analysis.

All other quality control parameters were within the acceptance limits.

#### **METALS (ICP)**

Samples CV0731A-CS-SP (680-89896-4), CV0662A-CS-SP (680-89896-6), CV0988A-CSD (680-89896-18), CV0662A-CS-SP (sieve) (680-89896-20), CV0731A-CS-SP (sieve) (680-89896-21) and CV0988A-CS-SP (sieve) (680-89896-22) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/06/2013 and analyzed on 05/08/2013.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0731A-CS-SP (680-89896-4) in batch 680-275916. Also, Arsenic, Barium and Lead exceeded the rpd limit.

## Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
SDG: 68089896-2

---

### Job ID: 680-89896-2 (Continued)

---

#### Laboratory: TestAmerica Savannah (Continued)

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

#### **TOTAL MERCURY**

Samples CV0731A-CS-SP (680-89896-4), CV0662A-CS-SP (680-89896-6), CV0988A-CSD (680-89896-18), CV0662A-CS-SP (sieve) (680-89896-20), CV0731A-CS-SP (sieve) (680-89896-21) and CV0988A-CS-SP (sieve) (680-89896-22) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 05/08/2013 and analyzed on 05/10/2013.

Mercury recovered outside the recovery criteria for the MS of sample CV0731A-CS-SPMS (680-89896-4) in batch 680-276327.

No other difficulties were encountered during the mercury analyses.

All other quality control parameters were within the acceptance limits.

# Sample Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
SDG: 68089896-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89896-4	CV0731A-CS-SP	Solid	04/29/13 13:22	05/02/13 10:30
680-89896-6	CV0662A-CS-SP	Solid	04/30/13 10:35	05/02/13 10:30
680-89896-18	CV0988A-CSD	Solid	04/30/13 13:10	05/02/13 10:30
680-89896-20	CV0662A-CS-SP (sieve)	Solid	04/30/13 10:35	05/02/13 10:30
680-89896-21	CV0731A-CS-SP (sieve)	Solid	04/29/13 13:22	05/02/13 10:30
680-89896-22	CV0988A-CS-SP (sieve)	Solid	04/30/13 13:10	05/02/13 10:30
680-89896-23	050113-RB-Bowls&Spoons	Water	05/01/13 09:30	05/02/13 10:30

# Method Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
SDG: 68089896-2

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	40CFR136A	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL SAV
Moisture	Percent Moisture	EPA	TAL TAM
Moisture	Percent Moisture	EPA	TAL SAV

#### Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

# Definitions/Glossary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
SDG: 68089896-2

## Qualifiers

### Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
 SDG: 68089896-2

**Client Sample ID: CV0731A-CS-SP**

**Lab Sample ID: 680-89896-4**

Date Collected: 04/29/13 13:22

Matrix: Solid

Date Received: 05/02/13 10:30

Percent Solids: 82.4

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	21		2.4	0.71	mg/Kg	☼	05/06/13 08:40	05/08/13 05:36	1
Barium	200		1.2	0.36	mg/Kg	☼	05/06/13 08:40	05/08/13 05:36	1
Cadmium	0.76		0.60	0.12	mg/Kg	☼	05/06/13 08:40	05/08/13 05:36	1
Chromium	41		1.2	0.60	mg/Kg	☼	05/06/13 08:40	05/08/13 05:36	1
Lead	120		1.2	0.64	mg/Kg	☼	05/06/13 08:40	05/08/13 05:36	1
Selenium	3.0	U	3.0	1.2	mg/Kg	☼	05/06/13 08:40	05/08/13 05:36	1
Silver	1.2	U	1.2	0.12	mg/Kg	☼	05/06/13 08:40	05/08/13 05:36	1

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.021	0.0084	mg/Kg	☼	05/08/13 12:47	05/10/13 12:46	1

**Client Sample ID: CV0662A-CS-SP**

**Lab Sample ID: 680-89896-6**

Date Collected: 04/30/13 10:35

Matrix: Solid

Date Received: 05/02/13 10:30

Percent Solids: 84.0

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	17		2.3	0.68	mg/Kg	☼	05/06/13 08:40	05/08/13 06:03	1
Barium	200		1.2	0.35	mg/Kg	☼	05/06/13 08:40	05/08/13 06:03	1
Cadmium	3.9		0.58	0.12	mg/Kg	☼	05/06/13 08:40	05/08/13 06:03	1
Chromium	17		1.2	0.58	mg/Kg	☼	05/06/13 08:40	05/08/13 06:03	1
Lead	420		1.2	0.61	mg/Kg	☼	05/06/13 08:40	05/08/13 06:03	1
Selenium	2.9	U	2.9	1.2	mg/Kg	☼	05/06/13 08:40	05/08/13 06:03	1
Silver	0.45	J	1.2	0.11	mg/Kg	☼	05/06/13 08:40	05/08/13 06:03	1

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.020	0.0083	mg/Kg	☼	05/08/13 12:47	05/10/13 12:59	1

**Client Sample ID: CV0988A-CSD**

**Lab Sample ID: 680-89896-18**

Date Collected: 04/30/13 13:10

Matrix: Solid

Date Received: 05/02/13 10:30

Percent Solids: 77.5

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	25		2.3	0.67	mg/Kg	☼	05/06/13 08:40	05/08/13 06:09	1
Barium	330		1.1	0.34	mg/Kg	☼	05/06/13 08:40	05/08/13 06:09	1
Cadmium	7.5		0.57	0.11	mg/Kg	☼	05/06/13 08:40	05/08/13 06:09	1
Chromium	71		1.1	0.57	mg/Kg	☼	05/06/13 08:40	05/08/13 06:09	1
Lead	480		1.1	0.61	mg/Kg	☼	05/06/13 08:40	05/08/13 06:09	1
Selenium	2.9	U	2.9	1.1	mg/Kg	☼	05/06/13 08:40	05/08/13 06:09	1
Silver	0.49	J	1.1	0.11	mg/Kg	☼	05/06/13 08:40	05/08/13 06:09	1

**Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.34		0.024	0.0098	mg/Kg	☼	05/08/13 12:47	05/10/13 13:01	1

TestAmerica Savannah



# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
 SDG: 68089896-2

## Client Sample ID: CV0662A-CS-SP (sieve)

## Lab Sample ID: 680-89896-20

Date Collected: 04/30/13 10:35

Matrix: Solid

Date Received: 05/02/13 10:30

Percent Solids: 80.9

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	22		2.4	0.70	mg/Kg	☼	05/06/13 08:40	05/08/13 06:14	1
Barium	180		1.2	0.36	mg/Kg	☼	05/06/13 08:40	05/08/13 06:14	1
Cadmium	5.9		0.59	0.12	mg/Kg	☼	05/06/13 08:40	05/08/13 06:14	1
Chromium	28		1.2	0.59	mg/Kg	☼	05/06/13 08:40	05/08/13 06:14	1
Lead	600		1.2	0.63	mg/Kg	☼	05/06/13 08:40	05/08/13 06:14	1
Selenium	3.0	U	3.0	1.2	mg/Kg	☼	05/06/13 08:40	05/08/13 06:14	1
Silver	0.68	J	1.2	0.11	mg/Kg	☼	05/06/13 08:40	05/08/13 06:14	1

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.024	0.0097	mg/Kg	☼	05/08/13 12:47	05/10/13 13:04	1

## Client Sample ID: CV0731A-CS-SP (sieve)

## Lab Sample ID: 680-89896-21

Date Collected: 04/29/13 13:22

Matrix: Solid

Date Received: 05/02/13 10:30

Percent Solids: 87.6

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	21		2.0	0.59	mg/Kg	☼	05/06/13 08:40	05/08/13 06:19	1
Barium	160		0.99	0.30	mg/Kg	☼	05/06/13 08:40	05/08/13 06:19	1
Cadmium	0.77		0.50	0.099	mg/Kg	☼	05/06/13 08:40	05/08/13 06:19	1
Chromium	33		0.99	0.50	mg/Kg	☼	05/06/13 08:40	05/08/13 06:19	1
Lead	310		0.99	0.53	mg/Kg	☼	05/06/13 08:40	05/08/13 06:19	1
Selenium	2.5	U	2.5	0.99	mg/Kg	☼	05/06/13 08:40	05/08/13 06:19	1
Silver	0.99	U	0.99	0.095	mg/Kg	☼	05/06/13 08:40	05/08/13 06:19	1

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.020	0.0081	mg/Kg	☼	05/08/13 12:47	05/10/13 13:06	1

## Client Sample ID: CV0988A-CS-SP (sieve)

## Lab Sample ID: 680-89896-22

Date Collected: 04/30/13 13:10

Matrix: Solid

Date Received: 05/02/13 10:30

Percent Solids: 79.7

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	28		2.3	0.69	mg/Kg	☼	05/06/13 08:40	05/08/13 06:36	1
Barium	370		1.2	0.35	mg/Kg	☼	05/06/13 08:40	05/08/13 06:36	1
Cadmium	3.8		0.58	0.12	mg/Kg	☼	05/06/13 08:40	05/08/13 06:36	1
Chromium	77		1.2	0.58	mg/Kg	☼	05/06/13 08:40	05/08/13 06:36	1
Lead	460		1.2	0.62	mg/Kg	☼	05/06/13 08:40	05/08/13 06:36	1
Selenium	2.9	U	2.9	1.2	mg/Kg	☼	05/06/13 08:40	05/08/13 06:36	1
Silver	0.47	J	1.2	0.11	mg/Kg	☼	05/06/13 08:40	05/08/13 06:36	1

### Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.37		0.022	0.0089	mg/Kg	☼	05/08/13 12:47	05/10/13 13:09	1

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
SDG: 68089896-2

**Client Sample ID: 050113-RB-Bowls&Spoons**

**Lab Sample ID: 680-89896-23**

**Date Collected: 05/01/13 09:30**

**Matrix: Water**

**Date Received: 05/02/13 10:30**

## Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20	4.6	ug/L		05/06/13 09:55	05/07/13 23:09	1
Barium	10	U	10	2.3	ug/L		05/06/13 09:55	05/07/13 23:09	1
Cadmium	5.0	U	5.0	2.0	ug/L		05/06/13 09:55	05/07/13 23:09	1
Chromium	10	U	10	1.2	ug/L		05/06/13 09:55	05/07/13 23:09	1
Lead	10	U	10	4.0	ug/L		05/06/13 09:55	05/07/13 23:09	1
Selenium	20	U	20	6.4	ug/L		05/06/13 09:55	05/07/13 23:09	1
Silver	10	U	10	0.89	ug/L		05/06/13 09:55	05/07/13 23:09	1

## Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		05/07/13 12:09	05/08/13 17:39	1

# QC Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
 SDG: 68089896-2

## Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 680-275602/1-A  
 Matrix: Water  
 Analysis Batch: 275916

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 275602

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20	4.6	ug/L		05/06/13 09:55	05/07/13 22:58	1
Barium	10	U	10	2.3	ug/L		05/06/13 09:55	05/07/13 22:58	1
Cadmium	5.0	U	5.0	2.0	ug/L		05/06/13 09:55	05/07/13 22:58	1
Chromium	10	U	10	1.2	ug/L		05/06/13 09:55	05/07/13 22:58	1
Lead	10	U	10	4.0	ug/L		05/06/13 09:55	05/07/13 22:58	1
Selenium	20	U	20	6.4	ug/L		05/06/13 09:55	05/07/13 22:58	1
Silver	10	U	10	0.89	ug/L		05/06/13 09:55	05/07/13 22:58	1

Lab Sample ID: LCS 680-275602/2-A  
 Matrix: Water  
 Analysis Batch: 275916

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 275602

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	107		ug/L		107	85 - 115
Barium	100	104		ug/L		104	85 - 115
Cadmium	50.0	52.2		ug/L		104	85 - 115
Chromium	100	105		ug/L		105	85 - 115
Lead	50.0	50.5		ug/L		101	85 - 115
Selenium	100	96.3		ug/L		96	85 - 115
Silver	50.0	49.7		ug/L		99	85 - 115

## Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-275763/1-A  
 Matrix: Water  
 Analysis Batch: 276087

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 275763

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		05/07/13 12:09	05/08/13 16:33	1

Lab Sample ID: LCS 680-275763/2-A  
 Matrix: Water  
 Analysis Batch: 276087

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 275763

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.56		ug/L		102	85 - 115

## Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-275575/1-A  
 Matrix: Solid  
 Analysis Batch: 275916

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 275575

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.58	mg/Kg		05/06/13 08:40	05/08/13 05:14	1
Barium	0.98	U	0.98	0.29	mg/Kg		05/06/13 08:40	05/08/13 05:14	1
Cadmium	0.49	U	0.49	0.098	mg/Kg		05/06/13 08:40	05/08/13 05:14	1
Chromium	0.98	U	0.98	0.49	mg/Kg		05/06/13 08:40	05/08/13 05:14	1

TestAmerica Savannah

# QC Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
 SDG: 68089896-2

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: MB 680-275575/1-A**  
**Matrix: Solid**  
**Analysis Batch: 275916**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 275575**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	0.98	U	0.98	0.52	mg/Kg		05/06/13 08:40	05/08/13 05:14	1
Selenium	2.5	U	2.5	0.98	mg/Kg		05/06/13 08:40	05/08/13 05:14	1
Silver	0.98	U	0.98	0.094	mg/Kg		05/06/13 08:40	05/08/13 05:14	1

**Lab Sample ID: LCS 680-275575/2-A**  
**Matrix: Solid**  
**Analysis Batch: 275916**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 275575**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Arsenic	9.90	10.2		mg/Kg		103	75 - 125
Barium	9.90	10.2		mg/Kg		103	75 - 125
Cadmium	4.95	5.16		mg/Kg		104	75 - 125
Chromium	9.90	10.4		mg/Kg		105	75 - 125
Lead	4.95	4.86		mg/Kg		98	75 - 125
Selenium	9.90	9.39		mg/Kg		95	75 - 125
Silver	4.95	4.86		mg/Kg		98	75 - 125

**Lab Sample ID: 680-89896-4 MS**  
**Matrix: Solid**  
**Analysis Batch: 275916**

**Client Sample ID: CV0731A-CS-SP**  
**Prep Type: Total/NA**  
**Prep Batch: 275575**

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Arsenic	21		11.8	44.1	F	mg/Kg	☼	194	75 - 125
Barium	200		11.8	244	4	mg/Kg	☼	364	75 - 125
Cadmium	0.76		5.89	6.25		mg/Kg	☼	93	75 - 125
Chromium	41		11.8	67.7	F	mg/Kg	☼	230	75 - 125
Lead	120		5.89	147	4	mg/Kg	☼	433	75 - 125
Selenium	3.0	U	11.8	9.81		mg/Kg	☼	83	75 - 125
Silver	1.2	U	5.89	6.67		mg/Kg	☼	113	75 - 125

**Lab Sample ID: 680-89896-4 MSD**  
**Matrix: Solid**  
**Analysis Batch: 275916**

**Client Sample ID: CV0731A-CS-SP**  
**Prep Type: Total/NA**  
**Prep Batch: 275575**

Analyte	Sample Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	
	Result	Qualifier		Result	Qualifier					RPD	Limit
Arsenic	21		11.9	35.8	F	mg/Kg	☼	122	75 - 125	21	20
Barium	200		11.9	154	4 F	mg/Kg	☼	-390	75 - 125	45	20
Cadmium	0.76		5.95	6.06		mg/Kg	☼	89	75 - 125	3	20
Chromium	41		11.9	66.2	F	mg/Kg	☼	214	75 - 125	2	20
Lead	120		5.95	103	4 F	mg/Kg	☼	-302	75 - 125	35	20
Selenium	3.0	U	11.9	9.85		mg/Kg	☼	83	75 - 125	0	20
Silver	1.2	U	5.95	5.78		mg/Kg	☼	97	75 - 125	14	20

# QC Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
 SDG: 68089896-2

## Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

**Lab Sample ID: MB 680-275956/1-A**  
**Matrix: Solid**  
**Analysis Batch: 276327**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 275956**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.0082	mg/Kg		05/08/13 12:47	05/10/13 12:05	1

**Lab Sample ID: LCS 680-275956/2-A**  
**Matrix: Solid**  
**Analysis Batch: 276327**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 275956**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.245	0.228		mg/Kg		93	80 - 120

**Lab Sample ID: 680-89896-4 MS**  
**Matrix: Solid**  
**Analysis Batch: 276327**

**Client Sample ID: CV0731A-CS-SP**  
**Prep Type: Total/NA**  
**Prep Batch: 275956**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.24		0.115	0.323	F	mg/Kg	☼	76	80 - 120

**Lab Sample ID: 680-89896-4 MSD**  
**Matrix: Solid**  
**Analysis Batch: 276327**

**Client Sample ID: CV0731A-CS-SP**  
**Prep Type: Total/NA**  
**Prep Batch: 275956**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	0.24		0.105	0.354		mg/Kg	☼	113	80 - 120	9	20

# QC Association Summary

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
 SDG: 68089896-2

## Metals

### Prep Batch: 275575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89896-4	CV0731A-CS-SP	Total/NA	Solid	3050B	
680-89896-4 MS	CV0731A-CS-SP	Total/NA	Solid	3050B	
680-89896-4 MSD	CV0731A-CS-SP	Total/NA	Solid	3050B	
680-89896-6	CV0662A-CS-SP	Total/NA	Solid	3050B	
680-89896-18	CV0988A-CSD	Total/NA	Solid	3050B	
680-89896-20	CV0662A-CS-SP (sieve)	Total/NA	Solid	3050B	
680-89896-21	CV0731A-CS-SP (sieve)	Total/NA	Solid	3050B	
680-89896-22	CV0988A-CS-SP (sieve)	Total/NA	Solid	3050B	
LCS 680-275575/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-275575/1-A	Method Blank	Total/NA	Solid	3050B	

### Prep Batch: 275602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89896-23	050113-RB-Bowls&Spoons	Total/NA	Water	200.7	
LCS 680-275602/2-A	Lab Control Sample	Total/NA	Water	200.7	
MB 680-275602/1-A	Method Blank	Total/NA	Water	200.7	

### Prep Batch: 275763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89896-23	050113-RB-Bowls&Spoons	Total/NA	Water	245.1	
LCS 680-275763/2-A	Lab Control Sample	Total/NA	Water	245.1	
MB 680-275763/1-A	Method Blank	Total/NA	Water	245.1	

### Analysis Batch: 275916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89896-4	CV0731A-CS-SP	Total/NA	Solid	6010C	275575
680-89896-4 MS	CV0731A-CS-SP	Total/NA	Solid	6010C	275575
680-89896-4 MSD	CV0731A-CS-SP	Total/NA	Solid	6010C	275575
680-89896-6	CV0662A-CS-SP	Total/NA	Solid	6010C	275575
680-89896-18	CV0988A-CSD	Total/NA	Solid	6010C	275575
680-89896-20	CV0662A-CS-SP (sieve)	Total/NA	Solid	6010C	275575
680-89896-21	CV0731A-CS-SP (sieve)	Total/NA	Solid	6010C	275575
680-89896-22	CV0988A-CS-SP (sieve)	Total/NA	Solid	6010C	275575
680-89896-23	050113-RB-Bowls&Spoons	Total/NA	Water	200.7 Rev 4.4	275602
LCS 680-275575/2-A	Lab Control Sample	Total/NA	Solid	6010C	275575
LCS 680-275602/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	275602
MB 680-275575/1-A	Method Blank	Total/NA	Solid	6010C	275575
MB 680-275602/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	275602

### Prep Batch: 275956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89896-4	CV0731A-CS-SP	Total/NA	Solid	7471B	
680-89896-4 MS	CV0731A-CS-SP	Total/NA	Solid	7471B	
680-89896-4 MSD	CV0731A-CS-SP	Total/NA	Solid	7471B	
680-89896-6	CV0662A-CS-SP	Total/NA	Solid	7471B	
680-89896-18	CV0988A-CSD	Total/NA	Solid	7471B	
680-89896-20	CV0662A-CS-SP (sieve)	Total/NA	Solid	7471B	
680-89896-21	CV0731A-CS-SP (sieve)	Total/NA	Solid	7471B	
680-89896-22	CV0988A-CS-SP (sieve)	Total/NA	Solid	7471B	
LCS 680-275956/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 680-275956/1-A	Method Blank	Total/NA	Solid	7471B	

TestAmerica Savannah

# QC Association Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
SDG: 68089896-2

## Metals (Continued)

### Analysis Batch: 276087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89896-23	050113-RB-Bowls&Spoons	Total/NA	Water	245.1	275763
LCS 680-275763/2-A	Lab Control Sample	Total/NA	Water	245.1	275763
MB 680-275763/1-A	Method Blank	Total/NA	Water	245.1	275763

### Analysis Batch: 276327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89896-4	CV0731A-CS-SP	Total/NA	Solid	7471B	275956
680-89896-4 MS	CV0731A-CS-SP	Total/NA	Solid	7471B	275956
680-89896-4 MSD	CV0731A-CS-SP	Total/NA	Solid	7471B	275956
680-89896-6	CV0662A-CS-SP	Total/NA	Solid	7471B	275956
680-89896-18	CV0988A-CSD	Total/NA	Solid	7471B	275956
680-89896-20	CV0662A-CS-SP (sieve)	Total/NA	Solid	7471B	275956
680-89896-21	CV0731A-CS-SP (sieve)	Total/NA	Solid	7471B	275956
680-89896-22	CV0988A-CS-SP (sieve)	Total/NA	Solid	7471B	275956
LCS 680-275956/2-A	Lab Control Sample	Total/NA	Solid	7471B	275956
MB 680-275956/1-A	Method Blank	Total/NA	Solid	7471B	275956

## General Chemistry

### Analysis Batch: 137086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89896-4	CV0731A-CS-SP	Total/NA	Solid	Moisture	
680-89896-4 MS	CV0731A-CS-SP	Total/NA	Solid	Moisture	
680-89896-4 MSD	CV0731A-CS-SP	Total/NA	Solid	Moisture	
680-89896-6	CV0662A-CS-SP	Total/NA	Solid	Moisture	
680-89896-18	CV0988A-CSD	Total/NA	Solid	Moisture	

### Analysis Batch: 275354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89896-20	CV0662A-CS-SP (sieve)	Total/NA	Solid	Moisture	
680-89896-21	CV0731A-CS-SP (sieve)	Total/NA	Solid	Moisture	
680-89896-22	CV0988A-CS-SP (sieve)	Total/NA	Solid	Moisture	

# Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
 SDG: 68089896-2

## Client Sample ID: CV0731A-CS-SP

Lab Sample ID: 680-89896-4

Date Collected: 04/29/13 13:22

Matrix: Solid

Date Received: 05/02/13 10:30

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			275575	05/06/13 08:40	JKL	TAL SAV
Total/NA	Analysis	6010C		1	275916	05/08/13 05:36	BCB	TAL SAV
Total/NA	Prep	7471B			275956	05/08/13 12:47	UU	TAL SAV
Total/NA	Analysis	7471B		1	276327	05/10/13 12:46	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

## Client Sample ID: CV0662A-CS-SP

Lab Sample ID: 680-89896-6

Date Collected: 04/30/13 10:35

Matrix: Solid

Date Received: 05/02/13 10:30

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			275575	05/06/13 08:40	JKL	TAL SAV
Total/NA	Analysis	6010C		1	275916	05/08/13 06:03	BCB	TAL SAV
Total/NA	Prep	7471B			275956	05/08/13 12:47	UU	TAL SAV
Total/NA	Analysis	7471B		1	276327	05/10/13 12:59	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

## Client Sample ID: CV0988A-CSD

Lab Sample ID: 680-89896-18

Date Collected: 04/30/13 13:10

Matrix: Solid

Date Received: 05/02/13 10:30

Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			275575	05/06/13 08:40	JKL	TAL SAV
Total/NA	Analysis	6010C		1	275916	05/08/13 06:09	BCB	TAL SAV
Total/NA	Prep	7471B			275956	05/08/13 12:47	UU	TAL SAV
Total/NA	Analysis	7471B		1	276327	05/10/13 13:01	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	137086	05/03/13 06:17	AG	TAL TAM

## Client Sample ID: CV0662A-CS-SP (sieve)

Lab Sample ID: 680-89896-20

Date Collected: 04/30/13 10:35

Matrix: Solid

Date Received: 05/02/13 10:30

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			275575	05/06/13 08:40	JKL	TAL SAV
Total/NA	Analysis	6010C		1	275916	05/08/13 06:14	BCB	TAL SAV
Total/NA	Prep	7471B			275956	05/08/13 12:47	UU	TAL SAV
Total/NA	Analysis	7471B		1	276327	05/10/13 13:04	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	275354	05/03/13 09:33	FS	TAL SAV



# Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
 SDG: 68089896-2

## Client Sample ID: CV0731A-CS-SP (sieve)

**Lab Sample ID: 680-89896-21**

Date Collected: 04/29/13 13:22

Matrix: Solid

Date Received: 05/02/13 10:30

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			275575	05/06/13 08:40	JKL	TAL SAV
Total/NA	Analysis	6010C		1	275916	05/08/13 06:19	BCB	TAL SAV
Total/NA	Prep	7471B			275956	05/08/13 12:47	UU	TAL SAV
Total/NA	Analysis	7471B		1	276327	05/10/13 13:06	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	275354	05/03/13 09:33	FS	TAL SAV

## Client Sample ID: CV0988A-CS-SP (sieve)

**Lab Sample ID: 680-89896-22**

Date Collected: 04/30/13 13:10

Matrix: Solid

Date Received: 05/02/13 10:30

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			275575	05/06/13 08:40	JKL	TAL SAV
Total/NA	Analysis	6010C		1	275916	05/08/13 06:36	BCB	TAL SAV
Total/NA	Prep	7471B			275956	05/08/13 12:47	UU	TAL SAV
Total/NA	Analysis	7471B		1	276327	05/10/13 13:09	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	275354	05/03/13 09:33	FS	TAL SAV

## Client Sample ID: 050113-RB-Bowls&Spoons

**Lab Sample ID: 680-89896-23**

Date Collected: 05/01/13 09:30

Matrix: Water

Date Received: 05/02/13 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			275602	05/06/13 09:55	BB	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1	275916	05/07/13 23:09	BCB	TAL SAV
Total/NA	Prep	245.1			275763	05/07/13 12:09	UU	TAL SAV
Total/NA	Analysis	245.1		1	276087	05/08/13 17:39	BCB	TAL SAV

**Laboratory References:**

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Test Am Tampa

Phone:  
Fax:

PROJECT REFERENCE <i>35th Ave. Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS										PAGE <i>1</i>	OF <i>2</i>									
TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER) SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	<i>LL PAH</i>	<i>REACH PAHs</i>															STANDARD REPORT DELIVERY <i>10 Calendar Days</i>	DATE DUE
CLIENT NAME <i>(b) (6)</i>	CLIENT EMAIL	CLIENT FAX																					EXPEDITED REPORT DELIVERY (SURCHARGE)	DATE DUE
CLIENT ADDRESS <i>(b) (6)</i>		NUMBER OF COOLERS SUBMITTED PER SHIPMENT:																						
COMPANY CONTRACTING THIS WORK (if applicable)		PRESERVATIVE																						

(b) (6)


(b) (6)

(b) (6)

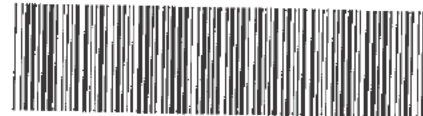
Page 17 of 21

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER) SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS							
DATE	TIME																							
<i>4-29-13</i>	<i>1424</i>	<i>CVO727A-CS-SP</i>	<i>C</i>	<i>X</i>		<i>X</i>																		
	<i>1351</i>	<i>CVO728A-CS-SP</i>	<i>C</i>	<i>X</i>		<i>X</i>																		
	<i>1357</i>	<i>CVO728B-CS-SP</i>	<i>C</i>	<i>X</i>		<i>X</i>																		
	<i>1322</i>	<i>CVO731A-CS-SP</i>	<i>C</i>	<i>X</i>		<i>X</i>	<i>X</i>																	
	<i>1333</i>	<i>CVO731B-CS-SP</i>	<i>C</i>	<i>X</i>		<i>X</i>																		
<i>4-30-13</i>	<i>1035</i>	<i>CVO667A-CS-SP</i>	<i>C</i>	<i>X</i>		<i>X</i>	<i>X</i>																	
	<i>0910</i>	<i>CVO670A-CS-SP</i>	<i>C</i>	<i>X</i>		<i>X</i>																		
	<i>0915</i>	<i>CVO670B-CS-SP</i>	<i>C</i>	<i>X</i>		<i>X</i>																		
	<i>0936</i>	<i>CVO670C-CS-SP</i>	<i>C</i>	<i>X</i>		<i>X</i>																		
	<i>0948</i>	<i>CVO670D-CS-SP</i>	<i>C</i>	<i>X</i>		<i>X</i>																		
	<i>1015</i>	<i>CVO670E-CS-SP</i>	<i>C</i>	<i>X</i>		<i>X</i>																		
	<i>1410</i>	<i>CVO466A-CS-SP</i>	<i>C</i>	<i>X</i>		<i>X</i>																		

Loc: 680  
89896



680-89896 Login  
PM: Harvey, Lisa  
Company: Oneida Total Integrated Enterprise



680-89896-01 Chain of Custody

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>5-1-13</i>	TIME <i>13130</i>	RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>5/6/13</i>	TIME <i>1710</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>5-2-13</i>	TIME <i>1030</i>	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>05/03/13</i>	TIME <i>0713</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-89896</i>	LABORATORY REMARKS <i>1.3 CV-07</i>	<i>(2.0°C - Savannah)</i>
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404  
Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location  
Test Am Tampa

Phone:  
Fax:

PROJECT REFERENCE 35th Ave Removal	PROJECT NO. 2005148-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS										PAGE 2 OF 2		
TAL (LAB) PROJECT MANAGER Lisa Harvey	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH Rechts Metals	PRESERVATIVE											STANDARD REPORT DELIVERY 10 Calendar Days DATE DUE
CLIENT (SITE) NAME	CLIENT PHONE	CLIENT FAX														EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>
CLIENT E-MAIL											DATE DUE					
CLIENT ADDRESS (b) (6)														NUMBER OF COOLERS SUBMITTED PER SHIPMENT:		
COMPANY CONTRACTING THIS WORK (if applicable)																

(b) (6)

(b) (6)

Page 18 of 21

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS			
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12	
4-30-13	1420	CV0466B-CS-SP	C	X			X														
	1240	CV0963A-CS-SP	C	X			X														
	1335	CV0964A-CS-SP	C	X			X														
	1350	CV0964B-CS-SP	C	X			X														
	1310	CV0988A-CS	C	X			X														
	1310	CV0988A-CSD	C	X			X	X													
	1300	CV0988B-CS	C	X			X														
4-30-13	1035	CV0662a-CS-SP (sieve)	C	X			X														
4-29-13	1302	CV0731A-CS-SP (sieve)	C	X			X														
4-30-13	1310	CV0988A-CS (sieve)	C	X			X														
5-1-13	0930	050113-RB-Bowls + Spoons	X				X	X													



RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 5-1-13	TIME 1330	RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 5/2/13	TIME 1730	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE 5-2-13	TIME 1030	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 05/03/13	TIME 0713	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 650-89896	LABORATORY REMARKS
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5/14/2013



## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89896-2

SDG Number: 68089896-2

**Login Number: 89896**

**List Number: 1**

**Creator: Snead, Joshua**

**List Source: TestAmerica Savannah**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Certification Summary

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
 SDG: 68089896-2

### Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-13 *
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13 *
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13 *
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13 *
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13 *
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

### Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Savannah

# Certification Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-89896-2  
SDG: 68089896-2

## Laboratory: TestAmerica Tampa (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12